

# SERVICE MANUAL



SANYO

## STEREO MUSIC SYSTEM

JXT 6910K  
JXT 6910K-5



JXT-6910K

### SPECIFICATIONS

#### Radio Section

Frequency range FM: 87.5 – 108MHz  
AM: 530 – 1605kHz

Intermediate frequency FM: 10.7MHz  
AM: 455kHz

Sensitivity FM: 2.8 $\mu$ V  
AM: 250 $\mu$ V/m

#### Record Changer Section

Type Fully automatic record changer  
Speed 33-1/3, 45 r.p.m.  
Cartridge and stylus Cartridge: Stereo magnetic cartridge (MG-31J)  
Stylus: Diamond stylus (ST-31J)

Turntable 11"(diameter)

#### Cassette Deck Section

Recording system AC bias, 4 tracks stereo  
Erasing system AC erase  
Tape speed 4.75 cm/sec (1-7/8" i.p.s.)  
Signal to noise ratio 62dB (Dolby switch ON)  
54dB (Dolby switch OFF)  
Frequency response 50 – 14,000Hz (CrO<sub>2</sub> tape)  
50 – 13,000Hz (Standard tape)

#### 8-Track Deck Section

Recording system AC bias, 8 tracks stereo  
Erasing system AC erase

Tape speed 9.5 cm/sec (3-3/4" i.p.s.)

Signal to noise ratio 50dB

Frequency response 50 – 10,000Hz

#### Speaker Section (JXT 6910K only)

Speaker Woofer: 20 cm (8")  
Tweeter: 6.5 cm (2-1/2")  
Impedance 8 ohms

#### General

Output power 12W RMS per channel into 8 ohms at 1% T.H.D.  
Terminal impedance MIC: 1k ohms (0.3mV)  
AUX: 50k ohms (100mV)  
REC OUT: 1k ohms (300mV)  
SPEAKERS: 8 ohms  
PHONES: 8 ohms to 10k ohms (30mV)

Power source AC: 120/200/220/240V, 50/60Hz  
Power consumption 55W  
Dimensions Main unit: 575(W) x 405(D) x 275(H) mm  
22-3/4" x 16" x 10-7/8"  
Speaker box: 300(W) x 200(D) x 530(H)  
11-7/8" x 8" x 21"  
(JXT 6910K only)

Weight Main unit: Approx. 13.5kg (29 lbs. 12 ozs.)  
Speaker box: Approx. 5kg (11 lbs.) x 2  
(JXT 6910K only)

\* Specifications subject to change without notice.

## HOW TO REMOVE THE SET

1. Remove screws 223 (WH 3 x 8) from case (45), and the case can be easily detached. (See Fig. 1.)
2. Put a hand into the case hole as illustrated and arrange the turntable screws and stoppers as shown in sketches 1 and 2. (See Fig. 2.)
3. Remove the turntable in this way: raise it in the direction of arrow (1), slide along arrow (2), lift in the direction of arrow (3), and take out RCA pin (121), output plug and power socket (120) from the turntable, then the turntable can be drawn out free. (See Fig. 3.)
4. Turn over the set, remove two screws 227 (WH 3 x 20) which are fixing cabinet (3) and bottom lid (83) together, and, holding bracket stand (84), push up the back cover to remove it. (See Fig. 4.)
5. When the back cover is opened, almost the entire face and back of the printed circuit board will be disclosed and visible enough for repairing and checking service. But a wider view can be obtained by removing the cabinet, of which procedure is described below. (See Fig. 5.)

Take out screws which are fixing the printed circuit boards and chassis to the cabinet. Then the cabinet can be separated, but be careful not to break the lead wires which are still connected. This permits much easier repairing and checking of printed circuit boards.

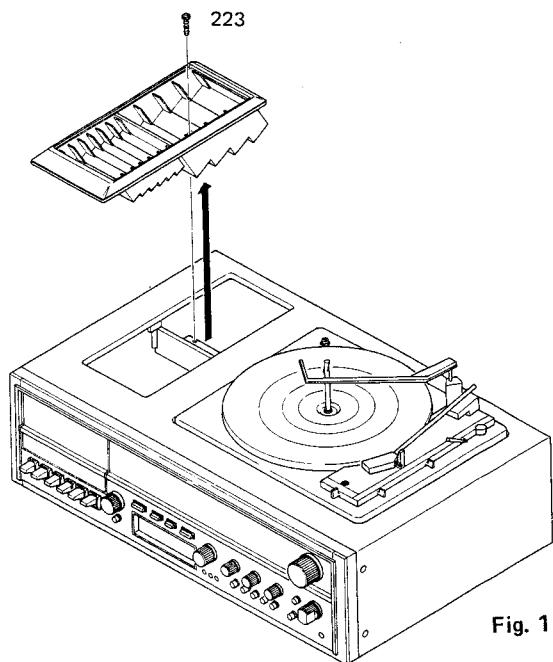


Fig. 1

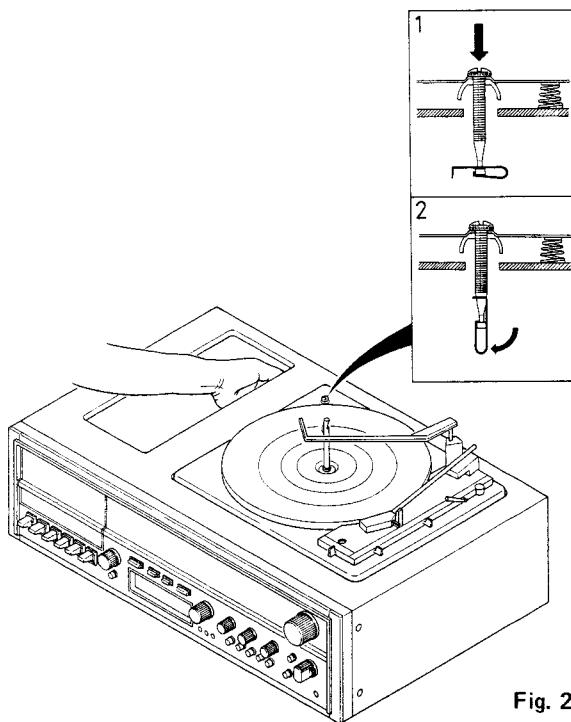


Fig. 2

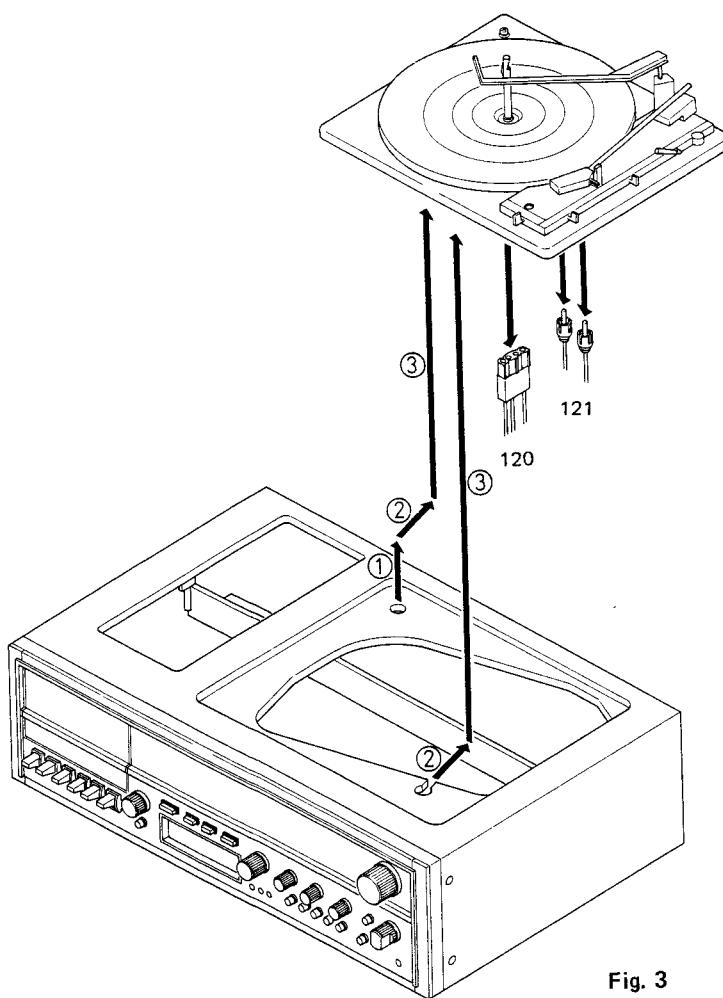


Fig. 3

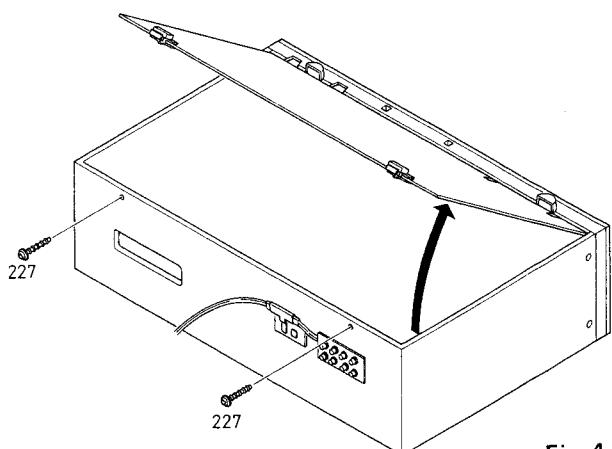


Fig. 4

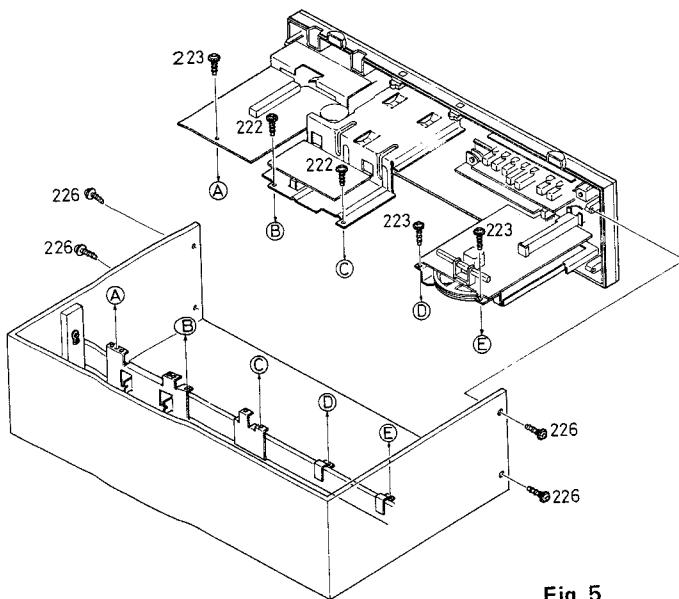


Fig. 5

## TORQUE ADJUSTMENT

1. Set the unit into the PLAY, FAST FORWARD or REWIND mode.
2. Measure the each torque with a torque gauge. They should be as following:
 

PLAY	30 – 60 gr/cm
FAST FORWARD	55 – 95 gr/cm
REWIND	60 – 100 gr/cm
3. If the each torque fails to reach the standard value. Clean the drive belt, flywheel, motor pulley, take-up reel, take-up pulley, idler and rewind roller with a cotton swab soaked in alcohol.

## TUNER ADJUSTMENT

### CENTER METER ADJUSTMENT

The DL pointer of the set selects a frequency which is completely free from undesired waves in the adjacent frequencies as well as in that frequency.

If the FM front end is not adjusted yet, first adjust it, and then adjust the meter.

- (1) With the FM SG output at OFF (less than  $-20 \text{ dB}\mu$ ), adjust T202 until the meter reads zero.
- (2) Tuning in with the FM SG output at  $72 \text{ dB}\mu$  (using 300-ohm dummy resistor), adjust T203 until the distortion becomes minimum (while the center meter is registering zero).
- (3) Turn off the FM SG output to check if the center meter is deviated; if deviated, adjust item (1) again.
- (4) Then adjust item (2) repeatedly until the center meter zero reading always coincides with the minimum distortion by turning on and off the FM SG output.
- (5) Tuning the set by turning on the FM SG output, move the core of T201 slightly (less than  $\pm 1/8$  revolution) until the distortion is minimized.
- (6) Repeat steps (1) through (5) to cause the center meter zero reading to coincide with the minimum distortion.

NOTE: Unless the T201 is correctly adjusted, the distortion may be unusually good or bad.

This center meter adjustment should be done after satisfactory adjustment of IF V-curve.

When the T201 is adjusted so as to maximize the signal meter with the FM SG output at  $72 \text{ dB}\mu$ , the V-curve will nearly show its correctly adjusted form.

During this adjustment, keep the set in normal posture (if the set is erected upright or inclined, the pointer may deviate.)

### SIGNAL METER ADJUSTMENT

With the FM SG output at higher than  $120 \text{ dB}\mu$ , adjust SVR201 until the meter reads within 4.6 to 4.7.

Keep the set in normal posture during this adjustment.

### VCO ADJUSTMENT

Since the VCO is not stabilized due to random noise effect while the FM SG is in no-signal condition, apply RF signal to the set to an extent not causing noise (more than  $40 \text{ dB}\mu$ ) to be in unmodulated state, and turn SVR301 to adjust to  $19.00 \pm 0.02 \text{ kHz}$ .

## FM ALIGNMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.	Connect sweep generator to or TP-104 (H) & TP-103 (E)	Connect oscilloscope to test point TP21 (H) & TP22 (E)	Sweep Generator	Near max. capacity of VC. at position with unrequired signal.	T201	Match wave form with center of ceramic filter
2	Ratio Det.		Connect oscilloscope to test point TP31 (H) & TP32 (E)			T202	<del>Match wave form with center of ceramic filter</del>
3	O.S.C.	Connect FM SG. to TP-101 (H) & TP-102 (E)	Connect VTVM to TP703 or TP704 (H) & TP705 (E)	88.0 MHz (400 Hz 30% modulation)	88.0 MHz on dial scale	L105	Max.
4				108.0 MHz (400 Hz 30% modulation)	108.0 MHz on dial scale	CT2	
5	ANT.	Connect FM SG. to TP-101 (H) & TP-102 (E)	Connect VTVM to TP703 or TP704 (H) & TP705 (E)	90.0 MHz (400 Hz 30% modulation)	90.0 MHz on dial scale	L103	Max.
6				106.0 MHz (400 Hz 30% modulation)	106.0 MHz on dial scale	CT1	
7	Repeat adjustments						

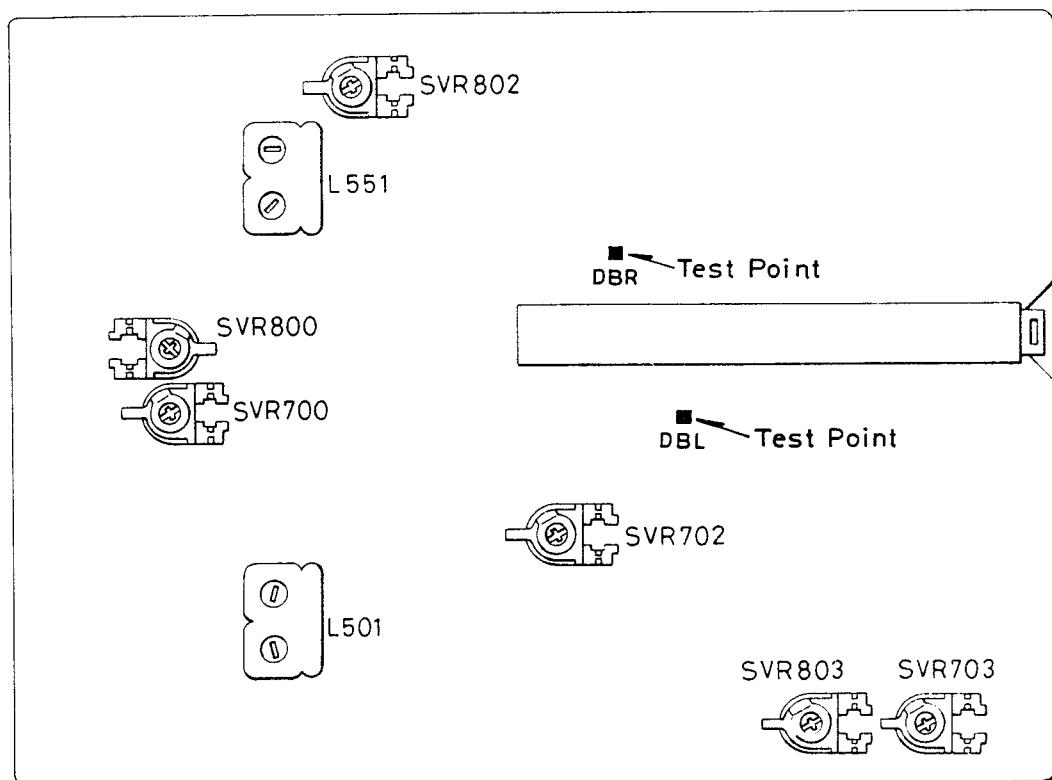
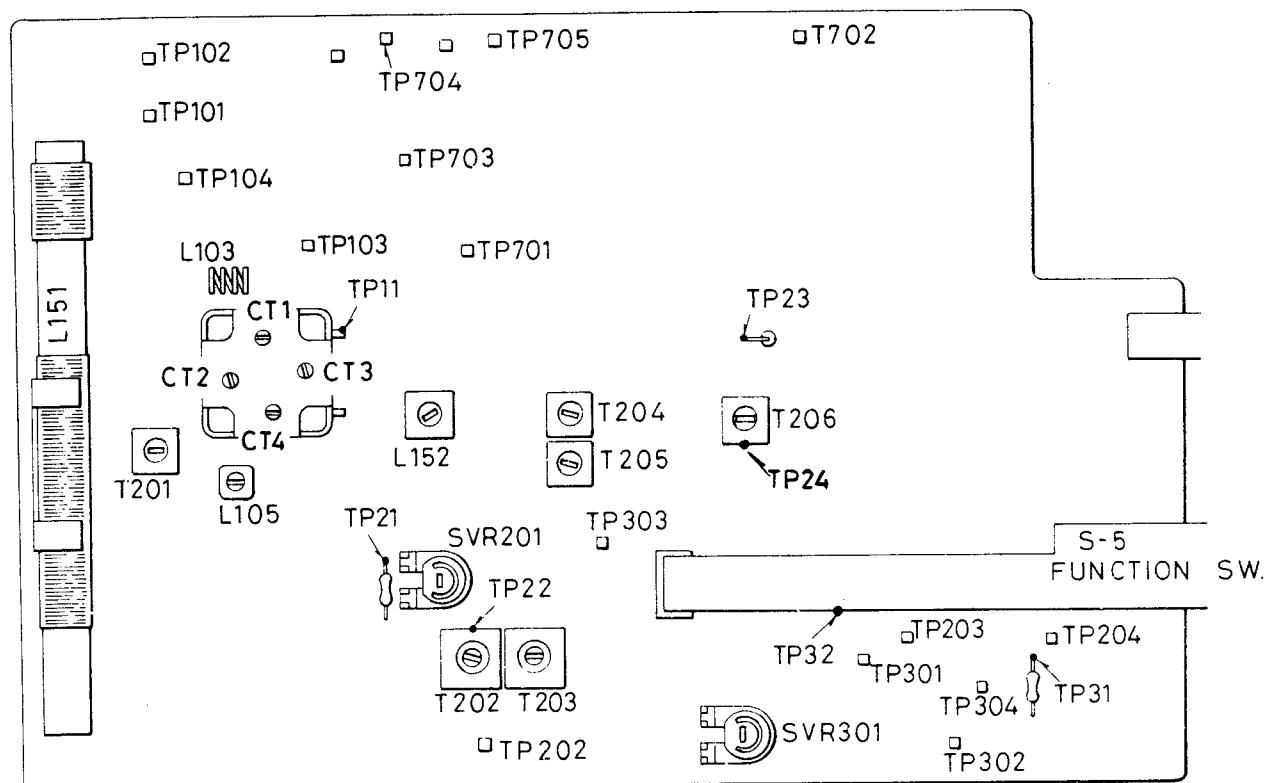
PREPARE: 1. Set the dial pointer to very left line of dial scale.  
 2. Connect sweep generator, FM SG, VTVM and oscilloscope. FM ANT input impedance is 300 ohm.  
 3. Use a screwdriver with plastic grip for all adjustments.  
 4. TP-3 --- R212 (270 ohms terminal) TP-4 --- R217 (1k ohm terminal)

## AM ALIGNMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.T.	Connect sweep generator to Test Loop	Connect oscilloscope to TP23 (H) & TP24 (E)	Sweep Generator	Low end of dial scale. At position of unrequired signal.	T204, T205 T206	Max.
2	O.S.C.	Connect AM SG to Test Loop.	Connect VTVM to TP23 (H) & TP24 (E)		505 KHz (400 Hz 30% modulation)	L152	
3				1670 KHz (400 Hz 30% modulation)	High end of dial scale	CT4	Max.
4	ANT.	Connect AM SG to Test Loop.	Connect VTVM to TP23 (H) & TP24 (E)	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale	L151	
5				1400 KHz (400 Hz 30% modulation)	1400 KHz on dial scale	CT3	
6	Repeat adjustments.						

PREPARE: 1. Set the dial pointer to very left line on dial scale.  
 2. Use a screwdriver with plastic grip for all adjustments.  
 3. Selector switch to "AM".  
 4. Connect sweep generator, AM SG, VTUM and oscilloscope.

PARTS LOCATION



## CASSETTE ADJUSTMENTS

ITEM	TEST TAPE	INPUT TERMINAL	DOLBY SW	TAPE SELECT SW	ADJUSTMENT METHOD
R/P Head Azimuth	VTT-657	R/P Head	OFF	NORMAL	Adjust so that output level of L-ch and R-ch be maximum. Measure at test point output.
Playback Gain	MTT-150 DOLBY TAPE	R/P Head	OFF	NORMAL	Adjust SVR 700, 800 until output of test points (TP-H, -E) becomes $580 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch.
REC/PLAY Frequency Characteristics	NORMAL TAPE	AUX -6 dB ↓ -26 dB	OFF	NORMAL	Impress input of 400 Hz (-6 dB) into AUX, set in REC mode. Adjust REC level control until test point output at this time becomes $580 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch. Next, set the input signal to -26 dB, record and play back signals of 1 kHz and 8 kHz. Adjust SVR 703, 803, so that output of 8 kHz be 0 to +1 dB provided that of 1 kHz is 0 dB.
REC/PLAY Output	NORMAL TAPE	AUX -6 dB	OFF	NORMAL	Adjust REC level control until test point output in REC mode becomes $580 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch. Record and play back. Then adjust SVR 702, 802 until this record/playback output becomes $580 \text{ mV} \pm 1 \text{ dB}$ .

NOTE: Test point outputs are mentioned in the parts layout drawing. Measure at these test points.

## 8-TRACK ADJUSTMENTS

Before adjustment, make sure that the tape head is clean. If it is not, clean the surface of the head with the cotton swab moistened in head cleaner fluid.

Remove the storage case (45) by unfastening the washer head tapping screw (Y25). Then, remove the back lid (5) by unfastening the two washer head tapping screws (Y27).

### HEAD AZIMUTH, CROSSTALK and PLAYBACK OUTPUT

Connect a VTVM to REC OUT located on the back of the unit and set the function knob to the TAPE position.

### HEAD AZIMUTH

Insert a test tape (VTT801) into the player. Turn the head azimuth adjusting screw (Y04) to obtain a maximum output. Repeat the adjustment for both channels.

### CROSSTALK

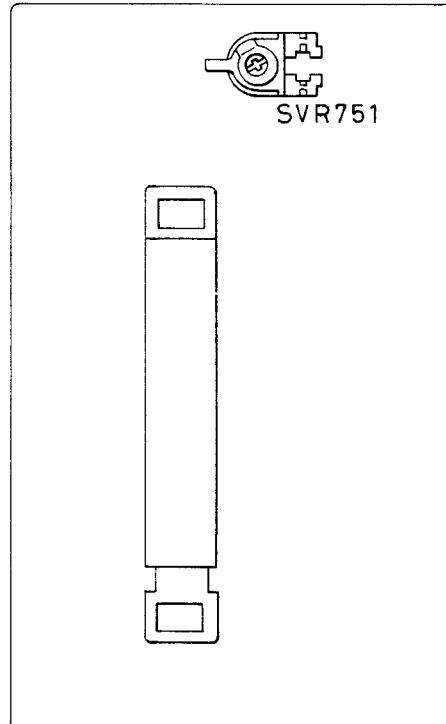
Insert a test tape (VTT801) into the player. Turn the head height adjusting plate nut (21) until the crosstalk discontinues and only one program is audible. Repeat the adjustment for both channels.

\* See the exploded view for the locations of these parts.

### PLAYBACK OUTPUT

Insert a test tape (VTT818) into the player.

Turn **SVR751** to obtain equal playback outputs on both right and left channels.



## 8-TRACK SPEED ADJUSTMENT

Preparation:

Tape used — VTT-802 (3 kHz test tape)

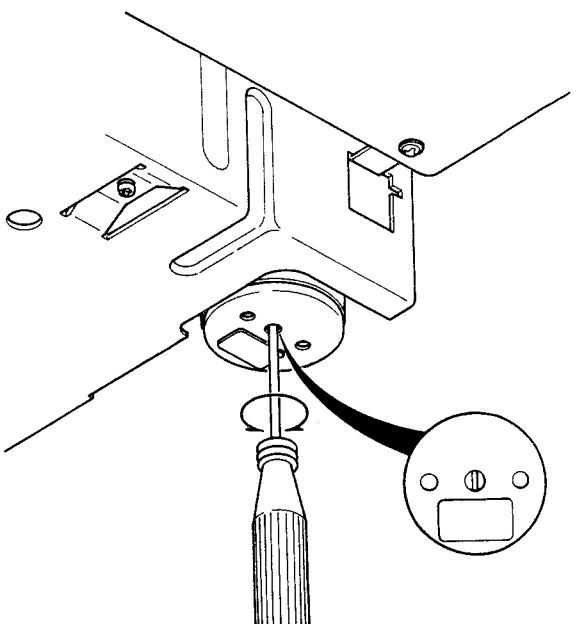
Note: Never use tape wound tight by fast forwarding or rewinding for adjusting purpose.

Connect a counter to the output side.

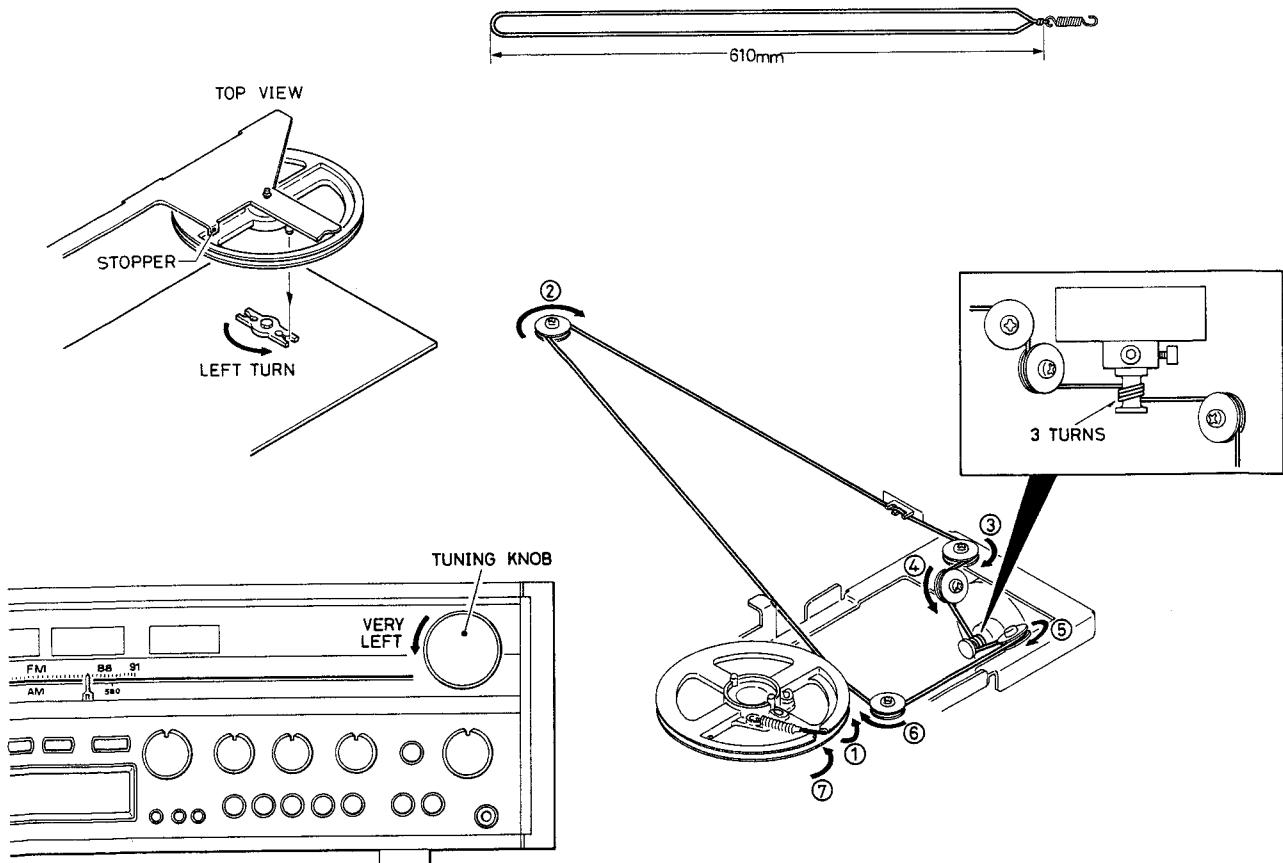
1. Remove bottom lid.
2. Lift the front side of the set and incline to an angle of 30 to 45 degrees.
3. Put a plastic bladed screwdriver into a motor hole, load the set with a tape, and adjust until the tape counter reads 2990 Hz  $\pm 10$  Hz.

(Reference)

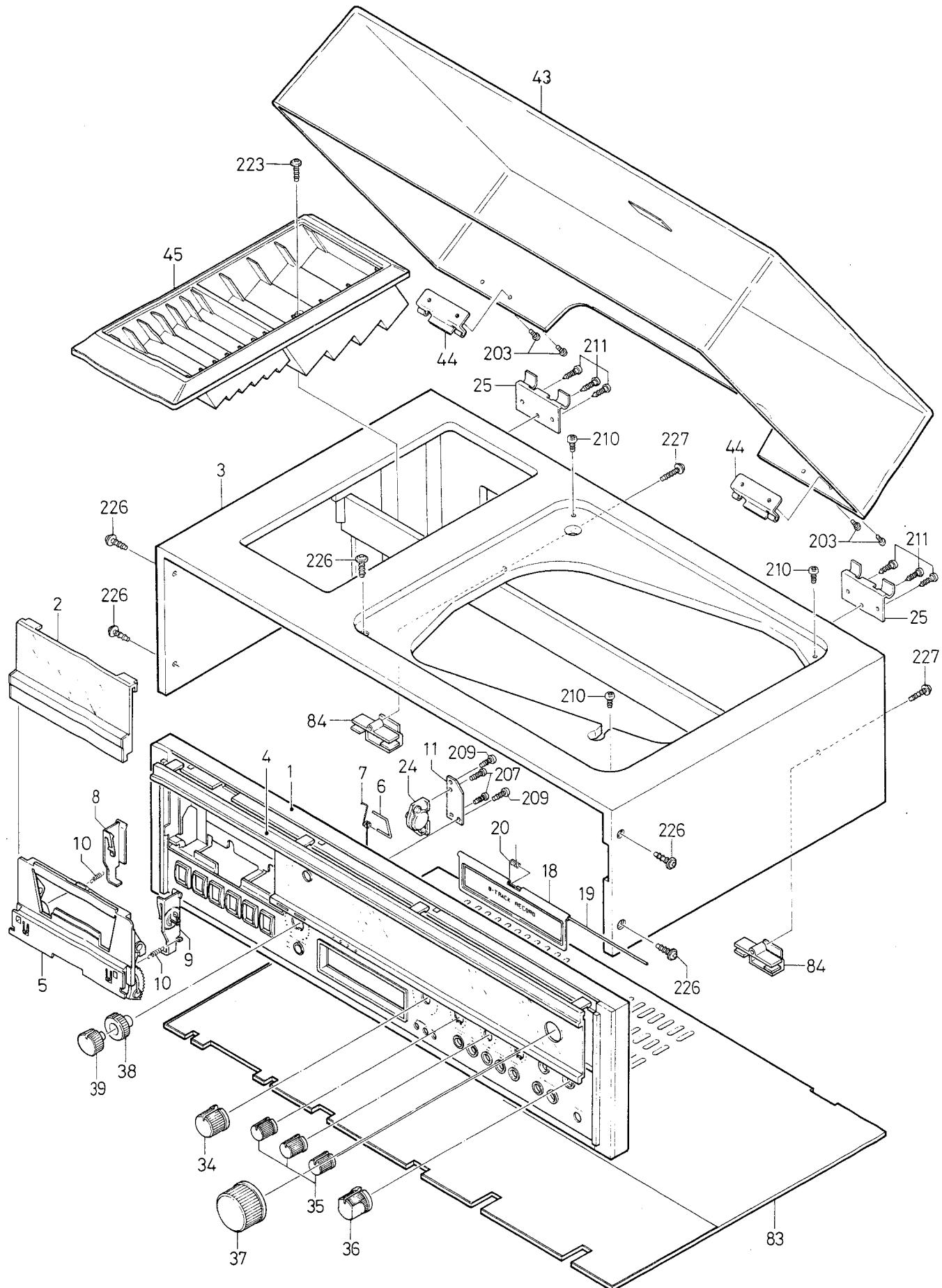
1. Clockwise turning of SVR will quicken the motor speed.
2. The speed will be about 8 to 10 Hz faster when the set is in the horizontal posture than in the 30- to 45-degree inclination.



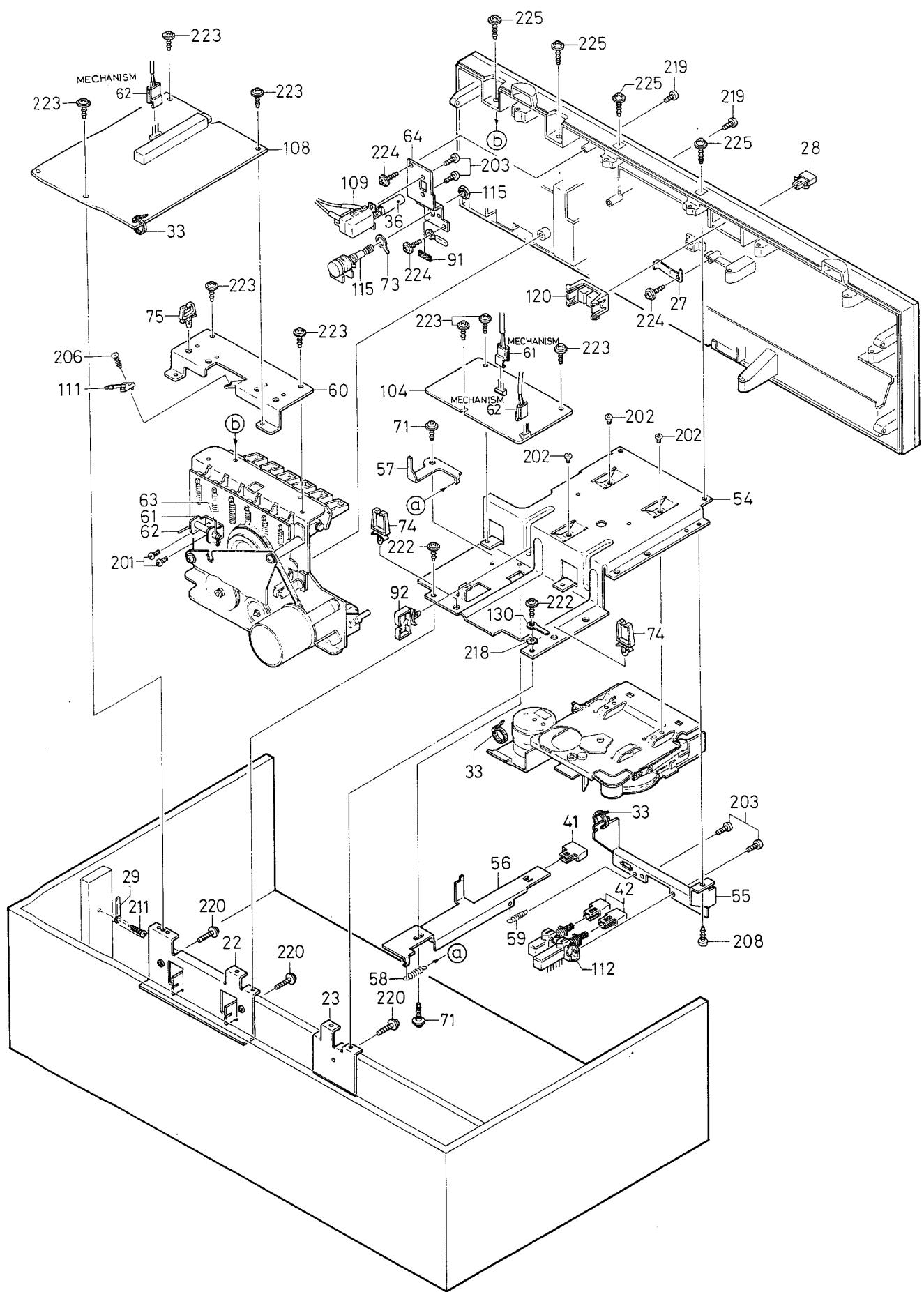
## DIAL CORD STRINGING



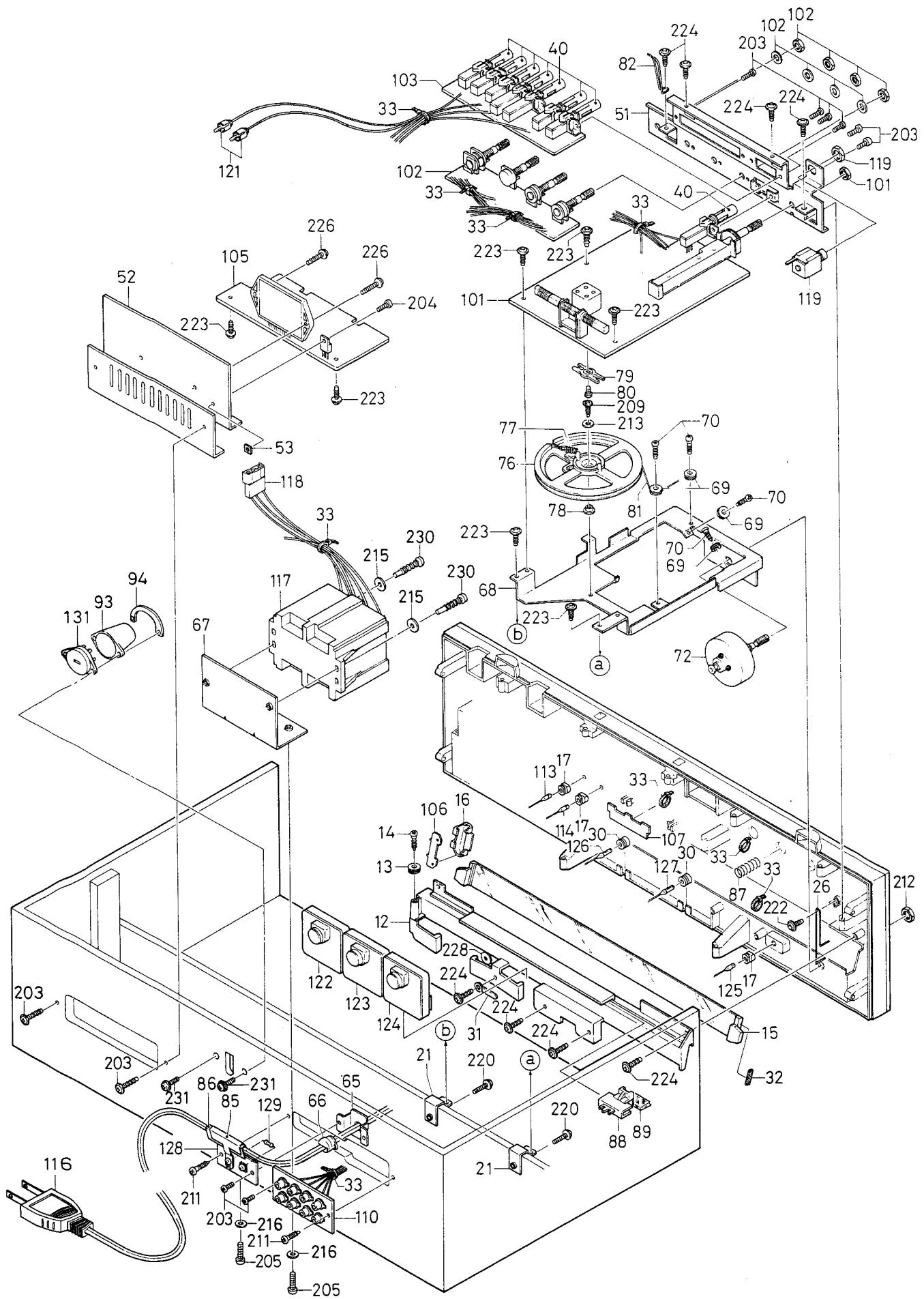
## EXPLODED VIEW (CABINET)



**EXPLODED VIEW (CHASSIS 1)**



### **EXPLODED VIEW (CHASSIS 2)**



## PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty				
<b>PACKING</b>											
	141-6-132T-97600	Individual Carton (JXT6910K)	1	43	141-0-194T-00801	Dust Cover Ass'y	1				
	141-6-132T-97700	Individual Carton (JXT6910K-5)	1	44	141-2-251T-06501	Hinge	2				
	141-6-410T-23200	Instruction Booklet (JXT6910K)	1	45	141-0-181T-10401	Case Ass'y	1				
	141-6-410T-23300	Instruction Booklet (JXT6910K-5)	1	<b>CHASSIS</b>							
	141-6-144T-51700	Foam Plastic Case	1	51	141-2-214T-03000	Bracket, Frame, VR Switch	1				
	141-6-144T-51800	Foam Plastic Case	1	52	141-2-368T-15400	Heat Sink	1				
	141-6-144T-51900	Foam Plastic Case	1	53	141-2-411T-03500	Plate Nut, PT	1				
	141-6-331T-04600	Protector Sheet, Dust Cover	2	54	141-2-214T-03100	Bracket, Frame, 8 Tr Mech.	1				
	141-6-317T-04100	Pad	1	55	141-2-310T-13400	Bracket, 8 Tr Switch	1				
	141-6-246T-32300	Sheet	2	56	141-2-731T-64200	Slide, Rec	1				
	141-6-317T-06200	Pad	2	57	141-2-742T-24400	Lever, Rec	1				
	141-6-453R-00100	Inspection Sheet	2	58	141-2-855T-29000	Spring Coil, Rec	1				
	141-6-231T-25350	Inner Polyethylene Bag, Inst. B	1	59	141-2-855T-27200	Spring Coil, Rec	1				
	141-6-231T-65900	Inner Polyethylene Bag, Set	1	60	141-2-310T-13600	Bracket, Cassette Mech.	1				
	141-6-231T-50800	Inner Polyethylene Bag, Dust Cover	1	61	141-2-310T-19700	Bracket, Rec	1				
	141-6-231T-55800	Inner Polyethylene Bag, SP Box Ass'y (JXT6910K only)	2	62	141-0-753T-54700	Shaft Ass'y, Rec	1				
	141-6-317T-06800	Pad 180x180mm, SP Box Ass'y (JXT6910K only)	1	63	141-2-852T-52700	Spring Wire, Rec	1				
	141-6-313T-06500	Side Pad 180x180mm, SP Box Ass'y (JXT6910K only)	2	64	141-2-310T-17800	Bracket, AC Switch	1				
	141-6-317T-04700	Pad 180x180mm, SP Box Ass'y (JXT6910K only)	1	65	141-2-310T-14900	Bracket, AC Cord	1				
	141-6-311T-03300	Top Pad 180x180mm, SP Box Ass'y (JXT6910K only)	1	66	141-2-464T-11800	Fixer, AC Cord	1				
	141-6-410T-24200	Instruction Booklet for Record Player Chinese (JXT6910K only)	1	67	141-2-371T-08800	Bracket, Transformer	1				
<b>ACCESSORY</b>											
	4-153T-11200	Microphone, without Remote Switch (JXT6910K only)	1	68	141-2-214T-03200	Bracket, Frame Tuner PCB	1				
	4-153T-11100	Microphone, with Remote Switch	1	69	141-2-661T-71300	Pulley	4				
	4-241T-01886	Cassette tape	1	70	141-2-421T-20900	Special Screw, Pulley	4				
	141-2-174T-07500	Microphone Stand	1	71	141-2-421T-25300	Special Screw, Rec Slide	2				
	4-236T-11201	Plug Ass'y	1	72	141-0-566T-08100	Tuning Shaft Ass'y	1				
	4-195T-00100	Adaptor, 45 rpm.	1	73	141-2-472T-07300	Lug	1				
<b>CABINET</b>											
1	141-0-122T-25701	Front Panel Ass'y	1	74	141-2-464T-24100	Fixer	3				
2	141-0-124T-19801	Top Lid Ass'y	1	75	141-2-464T-21100	Fixer	1				
3	141-0-111T-36801	Cabinet Ass'y	1	76	141-2-538T-08500	Drum	1				
4	141-0-131T-17400	Clear Window Ass'y	1	77	141-2-851T-06300	Spring Coil	1				
5	141-2-224T-09000	Bracket Lid	1	78	141-2-352T-33400	Spacer	1				
6	141-2-753T-33100	Shaft	1	79	123-2-363R-10401	Bracket, Capacitor	1				
7	141-2-855T-21302	Spring Coil	1	80	141-2-425T-00100	Hexagon Screw	1				
8	141-2-210T-06800	Bracket, Left	1	81	141-2-340T-00200	Rope	1				
9	141-2-210T-06900	Bracket, Right	1	82	141-2-852T-52200	Spring Wire	1				
10	141-2-851T-99800	Spring Coil	2	83	141-2-125T-15400	Bottom Lid	1				
11	141-2-310T-18900	Bracket	1	84	141-2-210T-07000	Bracket	2				
12	141-2-214T-02900	Bracket, Frame	1	85	123-2-464R-11201	Fixer, ANT Cord	1				
13	141-2-661T-71300	Pulley, Dial	1	86	123-2-327R-10400	Insulator	1				
14	141-2-421T-20900	Special Screw	1	87	141-2-855T-28900	Spring Coil	1				
15	141-2-146T-18700	Dial Scale	1	88	141-0-511T-12901	Pointer Ass'y	1				
16	141-2-374T-14000	Bracket, Pilot	1	89	141-2-352T-35400	Spacer	1				
17	141-2-445T-11801	Rubber Cushion	3	90	141-2-447T-00201	Cushion	1				
18	141-2-133T-12900	Compartiment Lid, 8 Tr	1	91	141-2-246T-27200	Sheet	1				
19	141-2-753T-16400	Shaft	1	92	141-2-464T-21300	Fixer	1				
20	141-2-855T-37300	Spring Coil	1	93	141-2-135T-52700	Cover	1				
21	141-2-310T-19000	Bracket	2	94	141-2-411T-08800	Plate Nut	1				
22	141-2-310T-13500	Bracket	1	<b>ELECTRICAL PARTS</b>							
23	141-2-310T-17700	Bracket	1	109	4-231T-61003	Switch Ass'y	1				
24	141-0-581T-07100	Gear Ass'y	1	110	4-235T-57901	Socket Ass'y, RCA 8P	1				
25	141-2-251T-06400	Hinge	2	111	4-231T-61600	Switch, R/P	1				
26	141-2-852T-52300	Spring Wire	1	112	4-231T-80600	Switch, F. FWD. PAUSE	1				
27	141-2-853T-58800	Spring Plate	1	113	4-612T-11800	Lamp, Rec	1				
28	141-2-161T-50000	Push Button, Channel Select	1	114	4-612T-11872	Lamp, Dolby	1				
29	141-2-472T-01201	Lug	4	115	4-222T-56872	Variable Resistor, Rec, 50K-Ax2	1				
30	141-2-445T-13302	Rubber Cushion, Meter	2	116	4-243R-00194	Power Cord	1				
31	141-2-472T-01001	Lug	1	117	4-251T-94600	Power Trans	1				
32	141-2-447T-66200	Cushion 10x30x1mm	1	118	4-235T-45372	Socket, Record Player AC	1				
33	141-2-464T-20671	Fixer	18	119	4-235T-44871	Socket, Headphone	1				
34	141-2-163T-47600	Rotary Knob, Volume	1	120	4-235T-51700	Socket, Mic Remote	1				
35	141-2-163T-47700	Rotary Knob, Tone/Balance	3	121	4-236T-11400	Plug, Record Player Out	2				
36	141-2-163T-47900	Rotary Knob, Function	1	122	4-511T-09072	Meter, VU L Channel	1				
37	141-2-163T-47800	Rotary Knob, Tuning	1	123	4-511T-09075	Meter, VU R Channel/Signal	1				
38	141-2-163T-53900	Rotary Knob, Rec Volume	1	124	4-511T-10300	Meter, Tuning	1				
39	141-2-163T-54000	Rotary Knob, Rec Volume	1	125	4-612T-11800	Lamp, FM Stereo	1				
40	141-2-161T-50100	Push Button, Select	8	126	4-612T-10974	Lamp, VU	1				
41	141-2-161T-49800	Push Button, Rec	1	127	4-612T-10975	Lamp, Tuning	1				
42	141-2-161T-55800	Push Button, Pause	2	128	4-237T-07901	Terminal Board Ass'y	1				
				129	123-2-472R-00401	Carbon Res. 470 ohm, ±5%, 1/4W	1				
				130	4-231T-37683	Lug	1				
				131		Switch	1				
<b>HARDWERE</b>											
	201			201		Pan Head Screw, 2.6x6mm	2				
	202			202		Pan Head Screw, 3x4mm	3				
	203			203		Pan Head Screw, 3x8mm	15				
	204			204		Pan Head Screw, 3x12mm	1				
	205			205		Pan Head Screw, 4x14mm	2				
	206			206		Tapping Screw, 2.3x10mm	1				
	207			207		Tapping Screw, 2.6x8mm	2				
	208			208		Tapping Screw, 3x8mm	3				
	209			209		Binding Head Tapping Screw, 3x10mm	1				

## PARTS LIST

Ref. No.	Part No.	Description	Q'ty
<b>ARD WARE</b>			
210		Tapping Screw, 4x10mm	3
211		Round Head Wood Screw, 3x13mm	9
212		Regular Hexagon Nut, 9mm	1
213		Washer, 3x10x0.5mm	1
214		Washer, 3x10x1mm	4
215		Washer, 4x8x0.8mm	2
216		Washer, 4x13x1.2mm	2
218		External Toothlock Washer, 3mm	1
219		Thread Rolling Screw, 3x8mm	2
220		Pan Head Screw with Washer, 3x14mm	5
221		Pan Head Screw with Spring Washer, 2.6x4mm	2
222		Tapping Screw with Washer, 3x6mm	4
223		Tapping Screw, with Washer, 3x8mm	16
224		Tapping Screw with Washer, 3x10mm	14
225		Tapping Screw with Washer, 3x12mm	4
226		Tapping Screw with Washer, 3x14mm	9
227		Tapping Screw with Washer, 3x20mm	2
228		Fiber Washer, 3x10x1mm	1
229		Fiber Washer, 4x10x1mm	1
230		Tapping Screw, 4x12mm	2
231		Tapping Screw, 3x16mm	2

Ref. No.	Part No.	Description	Q'ty
<b>TUNER PCB ASS'Y</b>			
		<b>RESISTORS</b>	
	R102	Carbon 330 ohm ±5% 1/4W	1
	R103	Carbon 1K ohm ±5% 1/4W	1
	R104	Carbon 2.7K ohm ±5% 1/4W	1
	R105	Carbon 33K ohm ±5% 1/4W	1
	R106	Carbon 10K ohm ±5% 1/4W	1
	R107	Carbon 56 ohm ±5% 1/4W	1
	R108	Carbon 1K ohm ±5% 1/4W	1
	R109	Carbon 3.3K ohm ±5% 1/4W	1
	R111	Carbon 10K ohm ±5% 1/4W	1
	R112	Carbon 47K ohm ±5% 1/4W	1
	R113	Carbon 2.2K ohm ±5% 1/4W	1
	R114	Carbon 330 ohm ±5% 1/4W	1
	R115	Carbon 560 ohm ±5% 1/4W	1
	R151	Carbon 100 ohm ±5% 1/4W	1
	R152	Carbon 33K ohm ±5% 1/4W	1
	R153	Carbon 5.6K ohm ±5% 1/4W	1
	R154	Carbon 3.3K ohm ±5% 1/4W	1
	R155	Carbon 10 ohm ±5% 1/4W	1
	R157	Carbon 330 ohm ±5% 1/4W	1
	R158	Carbon 6.8K ohm ±5% 1/4W	1
	R159	Carbon 560 ohm ±5% 1/4W	1
	R201	Carbon 560 ohm ±5% 1/4W	1
	R202	Carbon 10K ohm ±5% 1/4W	1
	R203	Carbon 33K ohm ±5% 1/4W	1
	R204	Carbon 1.5K ohm ±5% 1/4W	1
	R205	Carbon 330 ohm ±5% 1/4W	1
	R206	Carbon 330 ohm ±5% 1/4W	1
	R207	Carbon 100K ohm ±5% 1/4W	1
	R208	Carbon 330 ohm ±5% 1/4W	1
	R209	Carbon 6.8K ohm ±5% 1/4W	1
	R210	Carbon 8.2K ohm ±5% 1/4W	1
	R211	Carbon 22K ohm ±5% 1/4W	1
	R212	Carbon 47K ohm ±5% 1/4W	1
	R213	Solid 56 ohm ±10% 1/2W	1
	R214	Carbon 100K ohm ±5% 1/4W	1
	R215	Carbon 5.6K ohm ±5% 1/4W	1
	R217	Carbon 4.7K ohm ±5% 1/4W	1
	R218	Carbon 390 ohm ±5% 1/4W	1
	R220	Carbon 680 ohm ±5% 1/4W	1
	R221	Carbon 1.5K ohm ±5% 1/4W	1
	R222	Carbon 15K ohm ±5% 1/4W	1
	R223	Carbon 150K ohm ±5% 1/4W	1
	R224	Carbon 1.5K ohm ±5% 1/4W	1
	R225	Carbon 330 ohm ±5% 1/4W	1
	R226	Carbon 1K ohm ±5% 1/4W	1
	R227	Carbon 3.3K ohm ±5% 1/4W	1
	R228	Carbon 5.6K ohm ±5% 1/4W	1
	R229	Carbon 10K ohm ±5% 1/4W	1
	R230	Carbon 6.8K ohm ±5% 1/4W	1
	R216	Carbon 1.8K ohm ±5% 1/4W	1
	R301	Solid 100 ohm ±10% 1/2W	1
	R302	Carbon 3.3K ohm ±5% 1/4W	1
	R303	Carbon 3.3K ohm ±5% 1/4W	1
	R304	Carbon 560 ohm ±5% 1/4W	1
	R305	Solid 330 ohm ±10% 1/2W	1
	R306	Carbon 10K ohm ±5% 1/4W	1
	R307	Carbon 3.3K ohm ±5% 1/4W	1
	R308	Carbon 10K ohm ±5% 1/4W	1
	R309	Carbon 8.2K ohm ±5% 1/4W	1
	R310	Carbon 15K ohm ±5% 1/4W	1
	R311	Carbon 15K ohm ±5% 1/4W	1
	R313	Carbon 560K ohm ±5% 1/4W	1
	R779,879	Carbon 470 ohm ±10% 1/4W	2
	R784,884	Carbon 470 ohm ±10% 1/4W	2
	R866	Carbon 33 ohm ±10% 1/4W	1
	R782,882	Carbon 1K ohm ±10% 1/4W	2
	R786,886	Carbon 2.2K ohm ±10% 1/4W	2
	R876	Carbon 3.3K ohm ±10% 1/4W	1
	R776	Carbon 3.3K ohm ±10% 1/4W	1
	R791,891	Carbon 2.2K ohm ±10% 1/4W	2
	R885,785	Carbon 5.6K ohm ±10% 1/4W	2
	R772,872	Carbon 10K ohm ±10% 1/4W	2
	R889	Carbon 1.5K ohm ±10% 1/4W	1
	R792,892	Carbon 6.8K ohm ±10% 1/4W	2
	R773,873	Carbon 1M ohm ±10% 1/4W	2

PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y							
	RESISTORS						
R789		Carbon 1.5K ohm $\pm 10\%$ 1/4W	1	C220		Electrolytic 4.7 $\mu$ F 16V	1
R781,881		Carbon 18K ohm $\pm 10\%$ 1/4W	2	C312		Electrolytic 1 $\mu$ F 25V	1
R775,875		Carbon 39K ohm $\pm 10\%$ 1/4W	2	C209		Electrolytic 1 $\mu$ F 25V	1
R902		Carbon 4.7K ohm $\pm 10\%$ 1/4W	1	C302		Electrolytic 220 $\mu$ F 16V	1
R777,877		Carbon 56K ohm $\pm 10\%$ 1/4W	2	C303,304		AL Electrolytic 0.47 $\mu$ F 25V $\pm 20\%$	2
R767,867		Carbon 15K ohm $\pm 10\%$ 1/4W	2	C305		AL Electrolytic 0.33 $\mu$ F 10V	1
R888		Carbon 56K ohm $\pm 10\%$ 1/4W	1	C306		AL Electrolytic 0.22 $\mu$ F 10V	1
R783,883		Carbon 4.7K ohm $\pm 10\%$ 1/4W	2	C307		AL Electrolytic 0.47 $\mu$ F 10V	1
R787,887		Carbon 680 ohm $\pm 10\%$ 1/4W	2	C309		Electrolytic 0.47 $\mu$ F 16V	1
R788		Carbon 15K ohm $\pm 10\%$ 1/4W	1	C118		Electrolytic 47 $\mu$ F 16V	1
R874,774		Carbon 180K ohm $\pm 10\%$ 1/4W	2	C215		BC Con 0.022 $\mu$ F 25V	1
R780,880		Carbon 120K ohm $\pm 10\%$ 1/4W	2	C218		BC Con 0.022 $\mu$ F 25V	1
R778,878		Carbon 56K ohm $\pm 10\%$ 1/4W	2	C219		BC Con 0.022 $\mu$ F 25V	1
R766		Carbon 33 ohm $\pm 10\%$ 1/4W	1	C782,882		Electrolytic 33 $\mu$ F 6.3V	2
	CAPACITORS			C902		Electrolytic 100 $\mu$ F 16V	1
C101		Ceramic 30pF 50V $\pm 5\%$	1	C777,877		Electrolytic 22 $\mu$ F 6.3V	2
C102		Ceramic 24pF 50V $\pm 5\%$	1	C783,883		Electrolytic 10 $\mu$ F 16V	2
C103		Ceramic 47pF 50V $\pm 10\%$	1	C776,866		Electrolytic 2.2 $\mu$ F 25V	6
C104		Ceramic 0.01 $\mu$ F 50V +80-20%	1	771,871			
C105		Ceramic 20pF $\pm 5\%$	1	775,875			
C106		Ceramic 0.001 $\mu$ F $\pm 50\%$ $\pm 10\%$	1	C785,885		Ceramic 100pF 50V $\pm 10\%$	2
C107		Ceramic 0.01 $\mu$ F 50V +80-20%	1	C780,880		Ceramic 100pF 50V $\pm 10\%$	2
C108		Ceramic 0.01 $\mu$ F 50V +80-20%	1	C767,867		Ceramic 150pF 50V $\pm 10\%$	4
C109		Ceramic 2pF 50V $\pm 0.25pF$	1	776,876			
C110		Ceramic 20pF 50V $\pm 10\%$	1	C779,879		Ceramic 0.0033 $\mu$ F 50V $\pm 10\%$	2
C111		Ceramic 560pF 50V $\pm 10\%$	1	C781,881		Mylar 0.01 $\mu$ F 50V $\pm 10\%$	2
C112		Ceramic 4pF 50V $\pm 0.25pF$	1	C778,878		Mylar 0.015 $\mu$ F 50V $\pm 10\%$	2
C113		Ceramic 0.01 $\mu$ F 50V +80-20%	1	C930		Electrolytic 4.7 $\mu$ F 25V	1
C114		Ceramic 20pF 50V $\pm 5\%$	1	C224		BC Con 0.47 $\mu$ F 25V	1
C115		Ceramic 0.001 $\mu$ F 50V $\pm 10\%$	1				
C116		Ceramic 0.01 $\mu$ F 50V +80-20%	1				
C100		Ceramic 100pF 50V $\pm 10\%$	1				
C117		Ceramic 100pF 50V $\pm 10\%$	1				
C201		Ceramic 0.01 $\mu$ F 50V +80-20%	1				
C202		Ceramic 0.01 $\mu$ F 50V +80-20%	1				
C203		Ceramic 0.01 $\mu$ F 50V +80-20%	1				
C204		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C205		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C206		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C207		Ceramic 270pF 50V $\pm 5\%$	1				
C210		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C211		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C212		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C213		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C214		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C216		Ceramic 0.01 $\mu$ F 50V +80-20%	1				
C217		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C225		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C228		Ceramic 0.022 $\mu$ F 50V +80-20%	1				
C152		Mylar 0.0047 $\mu$ F 50V $\pm 20\%$	1				
C153		Mylar 0.01 $\mu$ F 50V $\pm 20\%$	1				
C222		Mylar 0.033 $\mu$ F 50V $\pm 10\%$	1				
C223		Mylar 0.01 $\mu$ F 50V $\pm 10\%$	1				
C301		Mylar 0.047 $\mu$ F 50V $\pm 20\%$	1				
C310,311		Ceramic 0.0056 $\mu$ F 50V $\pm 10\%$	2				
C155		Styrol 140pF 50V $\pm 5\%$	1				
C308		Styrol 1500pF 50V $\pm 10\%$	1				
C208		Electrolytic 4.7 $\mu$ F 16V	1				
VOLUME PCB ASS'Y							
	RESISTORS						
102	VR901A	141-4-230T-75900 4-222T-54271	P.C.B. Ass'y, Volume Variable Resistor	1			
	901B			2			
	902A						
	902B						
	VR903A	4-222T-68100	Variable Resistor	1			
	903B						
	VR904	4-222T-54100	Variable Resistor, 250K-W, Balance	1			
	C733,883	4-222T-54100	CAPACITORS				
			AL Electrolytic 0.22 $\mu$ F 10V +40-20%	2			
	C732,832		Mylar 0.047 $\mu$ F 50V $\pm 10\%$	2			
	C730,830		Mylar 0.039 $\mu$ F 50V $\pm 10\%$	2			
	C731,831		Ceramic 0.0056 $\mu$ F 50V $\pm 10\%$	2			
	R741,841		RESISTORS				
	R743,843		Carbon 10K ohm $\pm 5\%$ 1/4W	2			
	R742,842		Carbon 4.7K ohm $\pm 5\%$ 1/4W	2			
			Carbon 1.8K ohm $\pm 10\%$ 1/4W	2			
SWITCH PCB ASS'Y							
	103	141-4-230T-76000 4-231T-80500 4-231T-81700	P.C.B. Ass'y, Switch Switch Switch	1			
				1			
				1			

**ARTS LIST**

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty				
<b>SWITCH PCB ASS'Y</b>											
C744,844 C735,835 C743,843	<b>CAPACITORS</b>	Ceramic 680pF 50V $\pm 10\%$ Mylar 0.068 $\mu$ F 50V $\pm 10\%$ Ceramic 0.0068 $\mu$ F 50V $\pm 10\%$	2 2 2	105 IC703 Q901 D903 D905 D904,906 907 D901,902	141-4-230T-76200 4-227T-01000 141-2-327T-18200 141-2-243T-09800	P.C.B. Ass'y, Power Amp CR Pack Insulator Base I.C STK437 Transistor 2SC1226Q Diode DS131 A Diode WZ157 Diode 1N4001 Diode 1N4003	1 1 1 1 1 1 1 3 2				
C738,838 R739,839 R745,845 R744,844 R903	<b>RESISTORS</b>	Metal 220 ohm $\pm 5\%$ 1W Carbon 1M ohm $\pm 5\%$ 1/4W Carbon 1M ohm $\pm 5\%$ 1/4W Carbon 5.6K ohm $\pm 5\%$ 1/4W Solid 330 ohm $\pm 10\%$ 1/2W	2 2 2 2 1	C919 C918 C910 C739,839 C741,841 C916 C740,840 C738 C908 C911 C742,842 C909 C734,834 C736,836 C912,913 C914,915 917 C932	4-163T-01671	<b>CAPACITORS</b> Electrolytic 220 $\mu$ F 10V Electrolytic 2200 $\mu$ F 10V Electrolytic 100 $\mu$ F 16V Electrolytic 220 $\mu$ F 16V Electrolytic 47 $\mu$ F 25V Electrolytic 1000 $\mu$ F 25V Electrolytic 1000 $\mu$ F 35V Electrolytic 100 $\mu$ F 35V Electrolytic 100 $\mu$ F 50V Electrolytic 2200 $\mu$ F Mylar 0.1 $\mu$ F 50V $\pm 20\%$ Electrolytic 470 $\mu$ F 16V Electrolytic 1 $\mu$ F 25V Ceramic 470pF 50V $\pm 10\%$ Ceramic 0.02 $\mu$ F 500V +80-20% Ceramic 0.022 $\mu$ F 50V +80-20% Ceramic 0.022 $\mu$ F 50V +80-20%	1 1 1 2 2 1 2 1 1 1 1 2 1 2 2 2 3 1				
<b>8 TRACK PCB ASS'Y</b>											
104 SVR751 Q751,851 Q752,852 904 Q603 Q601,602	141-4-230T-76100 4-231T-72973 4-236T-10200 4-222T-39475	P.C.B. Ass'y, 8 Track Switch Plug Semifixed Variable Resistor 10K-B Transistor 2SC1571 G Transistor 2SC536 G U Transistor 2SD400 F Transistor 2SC536 G U	1 1 2 1 2 3 1 2	R748,848 R905 R737,837 R909 R746,846 R747,847 R906 R908,910 R750,850 R749,849	<b>RESISTORS</b>	Carbon 39 ohm $\pm 5\%$ 1/4W Carbon 4.7K ohm $\pm 5\%$ 1/4W Carbon 12K ohm $\pm 5\%$ 1/4W Carbon 120K ohm $\pm 5\%$ 1/4W Carbon 220K ohm $\pm 5\%$ 1/4W Carbon 390K ohm $\pm 5\%$ 1/4W Metal 56 ohm $\pm 5\%$ 3W Metal 100 ohm $\pm 5\%$ 1/2W Solid 4.7 ohm $\pm 10\%$ 1/2W Solid 1K ohm $\pm 10\%$ 1/2W	2 1 2 1 2 2 1 2 2 2				
C755,855 C907 C602 C607 C754,854 756,856 C603 C751,851 C753,853 C752,852 C608 C759,859 C927 C758,858 C757,857	<b>CAPACITORS</b>	Electrolytic 33 $\mu$ F 6.3V Electrolytic 220 $\mu$ F 16V Electrolytic 0.47 $\mu$ F 25V Electrolytic 1 $\mu$ F 25V Electrolytic 2.2 $\mu$ F 25V Electrolytic 4.7 $\mu$ F 25V Ceramic 150pF 50V $\pm 10\%$ Ceramic 150pF 50V $\pm 10\%$ Ceramic 0.001 $\mu$ F 50V $\pm 10\%$ Electrolytic 47 $\mu$ F 25V Ceramic 150pF 50V $\pm 10\%$ Electrolytic 220 $\mu$ F 6.3V Mylar 0.0022 $\mu$ F 50V $\pm 10\%$ Ceramic 0.0068 $\mu$ F 50V $\pm 10\%$	2 1 1 1 4 1 2 2 2 1 2 1 2 1 2 2 2 2	<b>DIAL LAMP PCB ASS'Y</b>							
R754,854 R602 R755,855 608,862 R917 R604,605 R606,761 R756,856 R607,603 R757,857 R751,851 R752,852 R753,853 R919 R760 R918,920 R758,858	<b>RESISTORS</b>	Carbon 390 ohm $\pm 10\%$ 1/4W Carbon 680 ohm $\pm 10\%$ 1/4W Carbon 1.2K ohm $\pm 10\%$ 1/4W Carbon 1.8K ohm $\pm 10\%$ 1/4W Carbon 3.3K ohm $\pm 10\%$ 1/4W Carbon 4.7K ohm $\pm 10\%$ 1/4W Carbon 6.8K ohm $\pm 10\%$ 1/4W Carbon 8.2K ohm $\pm 10\%$ 1/4W Carbon 15K ohm $\pm 10\%$ 1/4W Carbon 39K ohm $\pm 10\%$ 1/4W Carbon 47K ohm $\pm 10\%$ 1/4W Carbon 220K ohm $\pm 10\%$ 1/4W Carbon 5.6 ohm $\pm 10\%$ 1/4W Carbon 5.6K ohm $\pm 10\%$ 1/4W Carbon 8.2K ohm $\pm 10\%$ 1/4W Carbon 220K ohm $\pm 10\%$ 1/4W	2 1 4 1 2 2 2 2 2 2 2 2 2 1 1 2 2 2	106	141-4-230T-76300 4-612T-10500	P.C.B. Ass'y, Dial Lamp Lamp 6.3V 300mA	1 1				
<b>LED PCB ASS'Y</b>											
107 R609	141-4-230T-76400 141-2-352T-10600	P.C.B. Ass'y, LED LED SLP114 B RED Carbon Res. 1.8K ohm $\pm 10\%$ 1/4W Spacer	1 4 1 4								
<b>CASSETTE PCB ASS'Y</b>											
108 L501,551 L901 L700,800 L901 L701,801	141-4-230T-76500 4-255T-01600 4-258T-21800 4-253T-01011 4-253T-01006 4-252T-04100	P.C.B. Ass'y, Cassette M X Coil O.S.C Coil Hi-Freq Choke Hi-Freq Choke Choke	1 2 1 2 1 2								

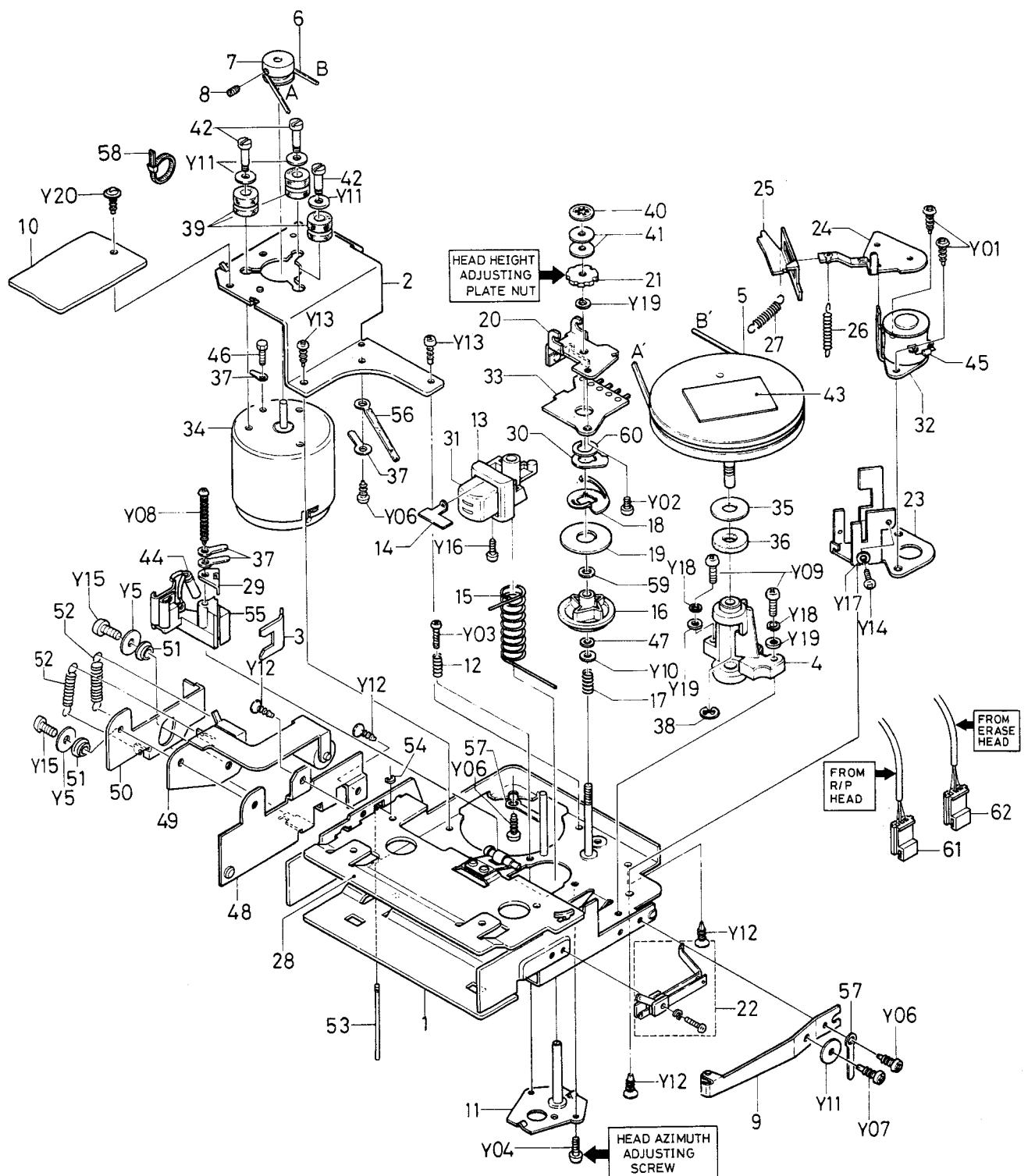
## PARTS LIST

Ref. No.	Part No.	Description		Q'ty
CASSETTE PCB ASS'Y				
	RESISTORS			
R816		Carbon 1.2K ohm	± 10%	1/4W
R913		Solid 82 ohm	± 10%	1/2W
R915		Carbon 12 ohm	± 10%	1/4W
R727,827		Carbon 39 ohm	± 10%	1/4W
R901,929		Carbon 100 ohm	± 10%	1/4W
R506,556		Carbon 180 ohm	± 10%	1/4W
R703,803		Carbon 220 ohm	± 10%	1/4W
R718,818		Carbon 470 ohm	± 10%	1/4W
R900		Carbon 4.7K ohm	± 10%	1/4W
R816,709		Carbon 1.2K ohm	± 10%	1/4W
809,716				4
R721,821		Carbon 15K ohm	± 10%	1/4W
R707,807		Carbon 1K ohm	± 10%	1/4W
R705,805		Carbon 180K ohm	± 10%	1/4W
R734,834		Carbon 1.5K ohm	± 5%	1/4W
R711,811		Carbon 2.2K ohm	± 5%	1/4W
R505,555		Carbon 3.3K ohm	± 5%	1/4W
714,814				4
R717,817		Carbon 5.6K ohm	± 5%	1/4W
R726,826		Carbon 6.8K ohm	± 5%	1/4W
R914		Carbon 6.8K ohm	± 5%	1/4W
R702,802		Carbon 12K ohm	± 5%	1/4W
R706,806		Carbon 15K ohm	± 5%	1/4W
722,822				4
R733,833		Carbon 18K ohm	± 5%	1/4W
R731,831		Carbon 22K ohm	± 5%	1/4W
R500,550		Carbon 47K ohm	± 5%	1/4W
R713,813		Carbon 100K ohm	± 5%	1/4W
R732,832		Carbon 220K ohm	± 5%	1/4W
R501,551		Carbon 270K ohm	± 5%	1/4W
R704,804		Carbon 390K ohm	± 5%	1/4W
R715,815		Carbon 820K ohm	± 5%	1/4W
R725,825		Carbon 1M ohm	± 5%	1/4W
R712,812		Carbon 2.2K ohm	± 5%	1/4W
R708,808		Carbon 3.3K ohm	± 5%	1/4W
R503,553		Carbon 680K ohm	± 5%	1/4W
R509,510		Carbon 1K ohm	± 5%	1/4W
559,560				4
R507,557		Carbon 180 ohm	± 5%	1/4W
R508,558		Carbon 100K ohm	± 5%	1/4W
R911		Solid 270 ohm	± 10%	1/2W
R904		Solid 330 ohm	± 10%	1/2W
R912		Carbon 47 ohm	± 10%	1/4W
R502,552		Carbon 150K ohm	± 5%	1/4W
R810,710		Carbon 12K ohm	± 5%	1/4W
R730,830		Carbon 3.3K ohm	± 5%	1/4W
R723,823		Carbon 2.2K ohm	± 5%	1/4W
701,801				5
862				

**ARTS LIST**

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty				
<b>3-TRACK MECHANISM</b>											
1	141-0-311T-20404	Chassis Assy	1	57	141-2-472T-05801	Lug	2				
2	141-2-378T-09201	Bracket, Motor	1	58	141-2-464T-20671	Fixer	1				
3	141-2-821T-10900	Tape Guide	1	59	141-2-453T-30302	Washer, GNW 3.1 x 5.4 x 0.5mm	1				
4	141-0-571T-14500	Bearing Axis Assy, Flywheel (141-0-571F-00700)	1	60	141-2-453T-30802	Washer, GNW 6.2 x 9.5 x 0.5mm	1				
5	141-0-521T-01400	Flywheel Assy (141-0-521T-05600)	1	61	4-235T-59771	Socket 3P, R/P Head	1				
6	141-2-564T-18800	Square Belt	1	62	4-235T-59772	Socket 3P, E Head	1				
7	141-2-661T-26800	Pulley, Motor	1	<b>8-TRACK MECHANISM</b>							
8	141-0-853T-41700	Head Less Screw 2.6 x 5	1	<b>MECHANISM SCREWS</b>							
9		Spring Plate Assy (141-0-853T-01000)	1	Y01		Binding Head Tapping Screw 3 x 6mm	2				
10	141-4-230T-83500	Printed Circuit Board Assy	1	Y02		Pan Head Screw 2.6 x 4mm	1				
	4-265R-11200	-VHF Coil	2	Y03		Pan Head Screw 2.6 x 10mm	1				
	4-252T-04700	-Choke Coil	1	Y04		Pan Head Screw 3 x 8mm	1				
		-Electrolytic Cap. 47μF 25V	1	Y05		Washer 3 x 10 x 1mm	2				
		-Ceramic Cap. 0.01μF 50V +80-20%	2	Y06		Tapping Screw 3 x 6mm	3				
		4-237T-00100		Y07		Tapping Screw 3 x 8mm	1				
		Terminal Board	7	Y08		Thread Rolling Screw 3 x 20mm	1				
		Carbon Res. 1Kohm ±5% 1/4W	1	Y09		Pan Head Screw (Tap Tight) 3 x 12mm	2				
11	141-0-375T-06301	Bracket Assy, Head (141-0-375T-01300)	1	Y10		Washer 3 x 6 x 0.5mm	1				
12	147-2-851T-00900	Spring Coil	1	Y11		Washer 3 x 8 x 0.5mm	4				
13	141-2-375T-07100	Bracket, Head	1	Y12		Flat Head Tapping Screw 3 x 6mm	4				
14	141-2-352T-13902	Spacer	1	Y13		Tapping Screw 3 x 10mm	2				
15	141-2-851T-89600	Spring Coil	1	Y14		Pan Head Screw 2.6 x 6mm	1				
16	141-2-671T-05000	Cam	1	Y15		Pan Head Screw 3 x 6mm	2				
17	141-2-851T-89500	Spring Coil	1	Y16		Pan Head Screw (Tap Tight) 2.6 x 5mm	1				
18	141-2-764T-01401	Brush	1	Y17		Spring Washer 2.6mm	1				
19	141-2-352T-14400	Spacer	1	Y18		Spring Washer 3mm	2				
20	141-0-853T-40900	Spring Plate Assy	1	Y19		Washer 3 x 6 x 1mm	3				
21	141-2-411T-07400	Plate Nut	1	Y20		Washer Head Tapping Screw 3 x 6mm	1				
22	4-231T-52300	Switch	1								
23	141-2-351T-33200	Bracket Mounting	1								
24	141-0-741T-92300	Lever Assy (141-0-741T-22500)	1								
25	141-2-741T-81103	Lever	1								
26	141-2-851T-92600	Spring Coil	1								
27	141-2-855T-10200	Spring Coil	1								
28	141-0-312T-14401	Sub Chassis Assy (141-0-312T-01500)	1								
29	141-2-853T-50900	Spring Plate	1								
30	141-2-352T-32000	Spacer	1								
31	4-242T-22400	Head	1								
32	4-264T-06301	Magnetic Coil Assy (4-264T-07101)	1								
33	4-230T-60100	Printed Circuit Board, Channel Select	1								
34	4-527T-11971	Motor	1								
35	141-2-457T-13400	Special s Washer 6.5 x 13 x 1 Nylon	1								
36	141-2-452T-03600	Felt Washer	1								
37	123-2472R-00400	Lug	4								
38	141-2-457T-23200	Special Washer	1								
39	141-2-4445T-13300	Rubber Cushion	3								
40	141-2-457T-22400	Special Washer	1								
41	141-2-457T-09200	Special Washer	2								
42	141-2-421T-10801	Special Screw	3								
43	141-6-474T-02600	Identification Label	1								
44		Electrolytic Cap. 3.3μF 25V	1								
45		Diode 10D1	1								
46	141-2-421T-22100	Special Screw	1								
47	141-2-453T-30301	Washer 3.1 x 5.4 x 0.25 Nylon	3								
48	141-2-747T-16501	Bracket Lever	1								
49	141-0-742T-18400	Lever Assy (141-0-742T-22600)	1								
50	141-2-742T-18500	Lever	1								
51	141-2-461T-32500	Pipe	2								
52	141-2-855T-25500	Spring Coil	2								
53	141-2-753T-50200	Shaft	1								
54	141-2-457T-23800	Special Washer	1								
55	147-0-382T-01700	Terminal Assy	1								
56	141-2-472T-01201	Lug	1								

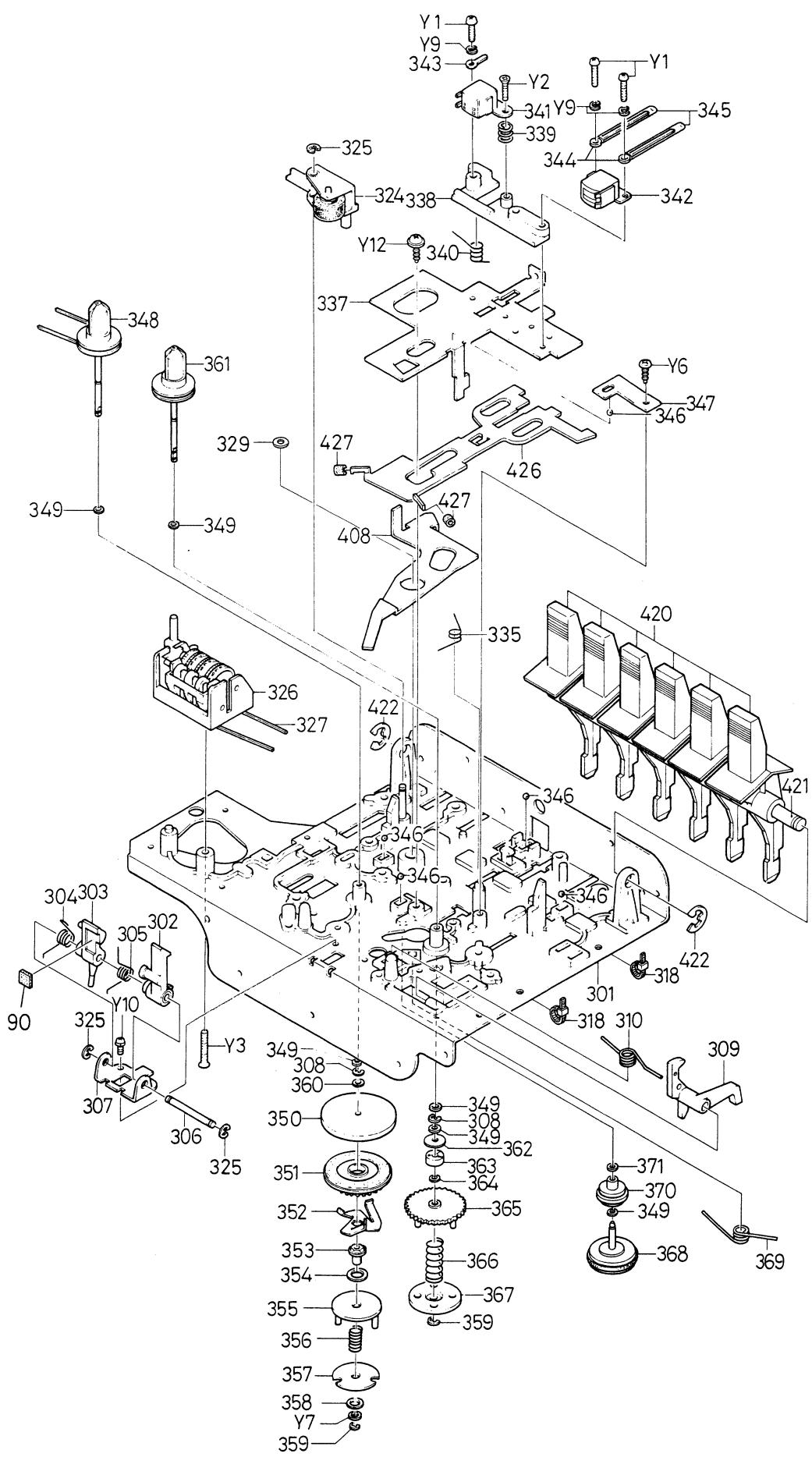
## EXPLODED VIEW (8-TRACK MECHANISM)



**ARTS LIST**

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty				
<b>CASSETTE MECHANISM</b>											
301	141-0-311T-28021	Chassis Ass'y	1	372	141-0-661T-26300	Pulley Ass'y	1				
302	141-2-742T-18200	Lever, Cassette Lock	1	373	141-2-853T-54400	Spring Plate	1				
303	141-2-742T-18300	Lever, Cassette Prass	1	374	141-2-457T-13100	Special Washer	1				
304	141-2-852T-47300	Spring Wire	1	375	141-0-581T-10400	Gear Ass'y	1				
305	141-2-852T-48400	Spring Wire	1	376	141-0-581T-10500	Gear Ass'y	1				
306	141-2-753T-41400	Shaft, Lever	1	377	141-2-457T-11000	Special Washer	2				
307	141-2-747T-16400	Bracket, Lever	1	378	141-2-457T-14000	Special Washer	1				
308	141-2-457T-23800	Special Washer 1.5mm	6	379	141-2-855T-23400	Spring Coil	1				
309	141-2-742T-14500	Lever	1	380	141-2-457T-13600	Special Washer	1				
310	141-2-852T-47200	Spring Wire	1	381	141-2-564T-18300	Squar Belt, Pulley	1				
311	141-2-853T-48601	Spring Plate	1	382	141-2-671T-05600	Cam, Autostop	1				
312	141-2-853T-48500	Spring Plate	1	383	141-2-661T-26400	Pulley	1				
313	4-237T-05800	Terminal Board	1	384	141-2-855T-30300	Spring Coil	1				
314	4-527T-11400	Ceramic Cap. 0.001μF 50V	1	385	141-2-564T-18400	Squar Belt, Autostop	1				
315	141-2-661T-72100	Motor	1	386	141-0-742T-14100	Lever Ass'y	1				
316	141-2-661T-72101	Pulley, Motor } or	1	387	141-2-855T-23101	Spring Coil	1				
	141-2-661T-72102	Pulley, Motor }		388	141-2-457T-14300	Special Washer	1				
317	141-2-378T-09600	Bracket, Motor	1	389	141-2-742T-13900	Lever	1				
318	141-2-464T-20671	Fixer	2	390	141-2-855T-26300	Spring Coil	1				
319	141-2-421T-16000	Special Screw, Bracket Motor	3	391	141-0-731T-59100	Slide Ass'y, Pause	1				
320	141-2-445T-11801	Rubber Cushion, Motor	3	392	141-0-747T-17000	Bracket Lever Ass'y	1				
321	141-2-421T-22100	Special Screw	1	393	141-2-742T-13800	Lever, Pause Lock	1				
322	123-2-472R-00400	Lug	3	394	141-2-852T-47700	Spring Wire	1				
323	141-2-447T-36001	Cushion, Motor	3	395	141-2-453T-00800	Washer, 3x8x0.5	1				
324	141-0-545T-05000	Lever Pinch Roller Ass'y	1	396	141-2-731T-59100	Slide, Stop Button	1				
325	141-2-457T-23000	Special Washer 2mm	2	397	141-2-731T-58900	Slide	1				
326	141-2-811T-06300	Counter	1	398	141-2-855T-11800	Spring Coil	1				
327	141-2-564T-18500	Squar Belt, Counter	1	399	141-2-731T-59000	Slide, Fwd.	1				
328	141-0-521T-08201	Flywheel Ass'y	1	400	141-2-853T-54800	Spring Plate, Fwd	1				
329	141-2-457T-04300	Special Washer	1	401	141-2-731T-58800	Slide, Rew	1				
330	141-0-524T-07901	Bracket, Flywheel Ass'y	1	402	141-2-853T-54700	Spring Plate, Rew	1				
	141-2-453T-30200	Washer, 2.6x4.7x0.13 }		403	141-2-731T-58700	Slide, Rew Button	1				
331	141-2-453T-30201	Washer, 2.5x5x0.25 } or	1	404	141-2-855T-23000	Spring Coil	3				
	141-2-453T-30202	Washer, 2.6x4.7x0.5 }		405	141-2-731T-62700	Slide	1				
332	123-2-472R-00601	Lug	2	406	141-2-855T-27100	Spring Coil	1				
333	123-2-472R-00400	Lug	2	407	141-2-855T-29500	Spring Coil	3				
334	141-2-561T-04300	Flat Belt, Main	1	408	141-2-742T-14000	Lever, Pause	1				
336	141-2-351T-45901	Bracket Mounting	1	409	141-2-742T-14200	Lever, Eject	1				
337	141-2-731T-58600	Slide	1	410	141-2-852T-47500	Spring Wire	1				
338	141-2-464T-27800	Fixer	1	411	141-2-490T-08301	Tube	5				
339	141-2-851T-82700	Spring Coil, Head Adj.	1	412	141-2-731T-59200	Slide, Eject	1				
340	141-2-852T-47400	Spring Wire, Pinch Roller	1	413	141-2-683T-34200	Ring	1				
341	4-242T-21400	Head R/P	1	414	141-2-457T-06600	Special Washer	1				
342	4-242T-18602	Head E	1	415	141-2-731T-59301	Slide, Eject	1				
343	123-2-472R-00200	Lug	1	416	141-2-852T-47600	Spring Wire	1				
344	141-2-472T-05900	Lug	2	417	141-2-731T-61100	Slide	1				
345	141-2-490T-00600	Tube	1	418	141-2-490T-08000	Tube	4				
346	141-2-345T-00400	Steel Ball, Head Slide	5	419	141-2-853T-54600	Spring Plate	1				
347	141-2-853T-54900	Spring Plate, Head Slide	1	420	141-2-611T-11100	Lever Push Button	6				
348	141-0-531T-11800	Reel Plate Ass'y, Tack-up	1	421	141-2-753T-34300	Shaft	1				
349	141-2-453T-30101	Washer, 2.1x4.0x0.25 Nylon	9	422	141-2-457T-23600	Special Washer	2				
350	141-2-547T-02100	Roller	1	423	141-2-737T-05900	Bracket Slide	1				
351	141-0-581T-10600	Gear Ass'y	1	426	141-2-731T-65600	Slide, Brake	1				
352	141-2-853T-54500	Spring Plate	1	427	141-2-712T-02700	Brake Shoe	2				
353	141-2-457T-13300	Special Washer	1	<b>MECHANISM HEADWARE</b>							
354	141-2-453T-30500	Washer, 4.1x6.5x0.13 Nylon	2	Y1		Pan Hd. Screw, 2x10	3				
355	141-2-671T-05500	Cam	1	Y2		Flat Hd. Screw, 2x11	1				
356	141-2-855T-23500	Spring Coil, Auto Stop	1	Y3		Flat Hd. Screw, 3x16	1				
357	141-2-457T-13000	Special Washer	1	Y4		Pan Hd. Tapping Screw, 2.3x6	2				
358	141-2-453T-30501	Washer, 4.1x6.5x0.25 Nylon	1	Y5		Pan Hd. Tapping Screw, 2.3x6	1				
359	141-2-457T-23700	Special Washer	2	Y6		Pan Hd. Tapping Screw, 3x6	1				
360	141-2-453T-30100	Washer, 2.1x4x0.13 Nylon	1	Y7		Washer, 2x6x0.4	1				
361	141-0-531T-11801	Reel Plate Ass'y, Supply	1	Y8		Washer, 3x8x0.5	3				
362	141-2-457T-14000	Special Washer	1	Y9		Spring Washer, 2x4.4x0.5	3				
363	141-2-457T-14100	Special Washer	1	Y10		Pan Hd. Screw W/Spring	4				
364	141-2-457T-11000	Special Washer	1	Y11		Washer, 2.6x4	1				
365	141-2-581T-10700	Gear, Rew	1	Y12		Pan Hd. Screw W/Spring	1				
366	141-2-855T-23200	Spring Coil	1	Y13		Pan Hd. Tapping Screw	8				
367	141-2-661T-26500	Pulley, Rew	1	Y14		W/Washer, 3x6	3				
368	141-0-551T-01720	Idler Ass'y	1	Y15		Pan Hd. Tapping W/Washer, 3x8	3				
369	141-2-852T-47800	Spring Wire, Idler	1			Pan Hd. Forming Screw, 3x18	1				
370	141-2-661T-26600	Pulley, Idler	1			Headless Screw, 2x4	1				
371	141-2-453T-30001	Washer, 1.7x3.2x0.25	2								

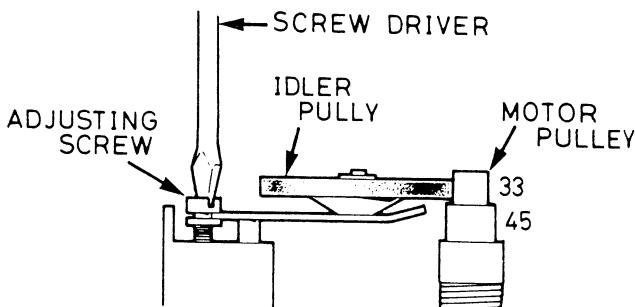
EXPLODED VIEW (CASSETTE MECHANISM)



## TURNTABLE ADJUSTMENTS

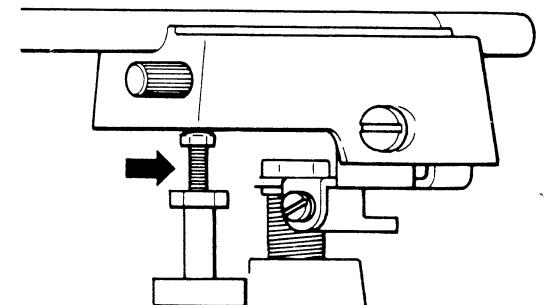
### (1) Idler Pulley

Disconnect changer from AC source and remove turntable. Set speed selector knob to 33 and control knob to START so idler pulley rests on 33 rpm step on motor pulley. Using a screwdriver, turn adjustment screw until idler pulley is centered on 33 rpm step on motor pulley. Check alignment of idler pulley at all speeds and readjust, if necessary. Move control knob to STOP and replace turntable, taking care not to damage idler pulley.



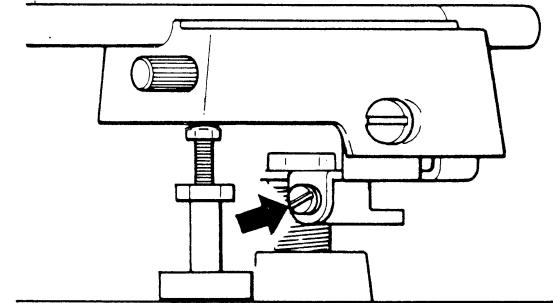
### (2) Tonearm Height

To raise, hold plastic nut firmly and turn screw head counterclockwise by hand; to lower, turn screw head clockwise. Adjust stylus to clear a full stack of records by 1/8".



### (3) Stylus Set-Down

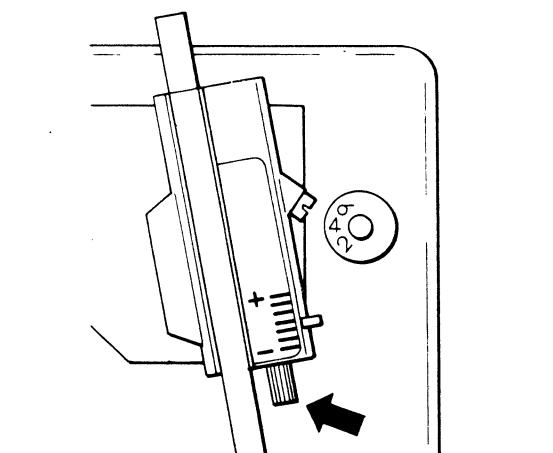
Set-down position of stylus on the record is adjusted by means of stylus adjusting screw. This screw is adjusted to obtain correct set-down for a 12" record. It should be adjusted so stylus will set down 1/8" from outside edge of record. This adjustment should be made with a 12" record on turntable. When stylus setdown is adjusted correctly for 12" record, it will automatically be corrected for 7" and 10" records.



### (4) Stylus Pressure

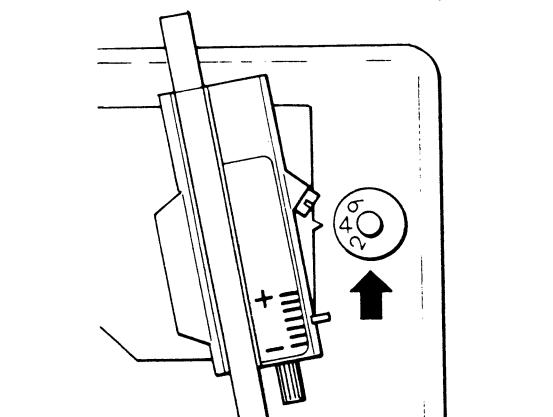
NOTE: It is necessary to use a stylus pressure gauge in adjusting stylus pressure of tonearm. One can be obtained from a local hi-fi store. Stylus pressure indicator on side of tonearm is for reference only and indicates an increase or decrease in nominal stylus pressure setting.

Turn stylus pressure adjusting screw clockwise to reduce stylus pressure; and counterclockwise to increase pressure. Pressure should be within a range of 4.0 gr to 4.5 gr.



### (5) Anti-Skate

Set control knob to number that is closest to stylus pressure setting. This anti-skate feature prevents tonearm from making quick lateral movements, such as skating through "lead-in" grooves of a record.



## PARTS LIST

### Item Part No Description

1	A.101506	Thrust Washer	81	A.100762	Circlip
2	A.101649	Ballrace	82	A.105901	Actuating Slide Spring
3	A.101506	Thrust Washer	83	A.107419	Ball Bearing $\frac{1}{4}$ " Diameter
4	A.102058	Damping Washer	84	A.106930	Operating Plate Spring
5	A.106089	Spring Cup	85	A.103290	Washer
6	A.106090	Unit Mounting Spring	86	A.108077	Spring
7	A.102109	Circlip	87	A.100785	Circlip
8	A.102595	Washer	88	A.102109	Circlip
9	A.104189	Transit Screw	89	A.108078	Selector Drive Spring
10	B.108656	Mainplate Sub-Assembly	90	A.102109	Circlip
11	A.106090	Unit Mounting Spring	91	A.105597	Feed Lever Link
12	A.102166	Retaining Clip	92	A.105827	Link Return Spring
13	A.106089	Spring Cup	93	A.106968	Feed Lever Link Spring
14	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head	94	A.108168	Operating Plate Assembly
15	A.102126	Solder Tag	95	A.105472	'Screw-On' Connector
16	A.106206	Tag Mounting Strip	96	A.106966	Four Pole Motor Assembly
17	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head	97	A.104077	Circlip
18	A.108589	Raising Spindle	98	A.106966	Washer
19	B.110364	Raising Cam	99	B.106962	Actuating Slide
20	A.102109	Circlip	100	B.108073	Toggle Wheel
21	B.106021	Speed Change Arm	101	A.108334	Circlip
22	A.105831	Raising Spindle Spring	102	A.106697	Pick-Up Raising Spindle Assembly
23	A.106034	Speed Change Bracket	103	A.107004	Support Spring
24	A.107148	Insulating Sleeve	104	A.106965	Support Bracket
25	A.106015	Retaining Strip	105	A.107154	Ball Bearing $\frac{1}{4}$ " Diameter
26	A.106970	Capacitor	106	A.108085	Quadrant Assembly
27	A.200446	Solder Tag	107	A.104882	Retaining Clip
28	A.200450	Switch Dolly	108	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head
29	A.200445	Flat Contact	109	A.100785	Circlip
30	A.200444	Domed Contact	110	A.102128	Circlip
31	A.108183	Switch Cover	111	A.101526	Circlip
32	A.108182	Switch Cover	112	A.102251	Retainer
33	A.107418	Screw Type BT 4-24 $\times$ $\frac{1}{2}$ " Rec. Pan Head	113	A.102623	Cut-Off Lever Spring
34	A.105263	Screw Type BT 6-20 $\times$ $\frac{1}{2}$ " Rec. Pan Head	114	B.105592	Cut-Off Lever
35	A.102718	Cable Clamp	115	A.108036	Selector Lever
36	A.106513	3" — 5mm PVC Sleaving	116	A.108893	Washer
37	A.106749	4 BA Tag Lockwasher	117	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head
38	A.103096	'Amp' Plug Housing	118	A.100762	Circlip
39	A.104865	Insulating Strip	119	A.105660	Control Washer
40	A.108184	Switch Cover	120	A.106627	Detent Spring
41	A.102181	Two Pole Motor Assembly	121	A.102109	Circlip
42	A.101620	Rubber Mounting	122	A.106134	Reject Link
43	A.101646	Motor Mounting Washer	123	A.108283	Reject Lever Assembly
44	A.100762	Circlip	124	A.108075	Detent Plate Spring
45	B.108181	Switch Body	125	A.108894	Selector Pivot
46	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head	126	A.108033	Detent Plate
47	A.102128	Circlip	127	A.102109	Circlip
48	A.105619	Adjusting Screw	128	A.106193	Reject Plate Assembly
49	A.105966	Jockey Arm Riveting Assembly	129	A.105267	Screw Type BT 4-24 $\times$ $\frac{1}{2}$ " Rec. Pan Head
50	A.105824	Jockey Pulley Spring	130	A.105267	Screw Type BT 4-24 $\times$ $\frac{1}{2}$ " Rec. Pan Head
51	A.101620	Jockey Pulley Spindle Washer	131	A.106119	Reject Slide
52	A.101623	Jockey Pulley Assembly	132	B.106143	Selector Slide
53	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head	133	A.100785	Circlip
54	A.106749	4 BA Tag Lockwasher	134	A.108461	Roller
55	A.101620	Jockey Pulley Spindle Washer	135	A.108064	Slide Pin
56	A.100762	Circlip	136	A.106129	Switch Lever
57	A.102128	Circlip	137	A.107863	Screw Type BT 4-24 $\times$ $\frac{1}{2}$ " Rec. Pan Head
58	A.107086	Muting Switch Assembly	138	A.106816	Washer
59	A.102126	Solder Tag	139	B.106405	Switch Link
60	A.102616	Phono Socket	140	B.106815	Spring Anchor
61	A.106090	Unit Mounting Spring	141	A.106812	Anti-Skate Spring
62	A.106089	Spring Cup	142	A.105267	Screw Type BT 4-24 $\times$ $\frac{1}{2}$ " Rec. Pan Head
63	A.100762	Circlip	143	A.105826	Switch Lever Spring
64	A.106819	Actuating Pawl Assembly	144	A.102110	Circlip
65	A.102133	Cam Gear Riveting Assembly	145	B.108113	Speed Change Slide Assembly
66	A.108034	Cut-Off Slide	146	A.102166	Retaining Clip
67	A.108083	Cut-Off Slide Spring	147	A.106813	Anti-Skate Control Spring
68	A.102126	Solder Tag	148	A.106089	Spring Cup
69	A.110609	Screw No. 8 $\times$ $\frac{1}{2}$ " Hi-Lo Rec. Pan Head	149	A.106090	Unit Mounting Spring
70	A.102126	Solder Tag	150	B.106122	Knob
71	A.108401	7" — 3mm PVC Sleaving	151	B.106122	Knob
72	C.108104	Main Sub Plate Riveting Assembly	152	B.110426	Selector Knob
73	A.105678	Circlip	153	A.104189	Transit Screw
74	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head	154	A.108891	Selector Pivot Spring
75	A.106510	Screw Type No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head	155	A.102109	Circlip
76	A.110985	Control Spindle Spring	156	A.104765	Drive Spring
77	A.104861	Spacer	157	B.110487	50c Motor Pulley
78	A.102109	Circlip	158	B.110488	60c Motor Pulley
79	A.106512	Screw Type BT 4-24 $\times$ $\frac{1}{2}$ " Rec. Pan Head	159	A.106510	Screw Type B No. 6 $\times$ $\frac{1}{2}$ " Rec. Pan Head
	A.108654	Spring Clip		B.108629	Anti-Skate Control

EXPLODED VIEW (AUTO MECHANISM)

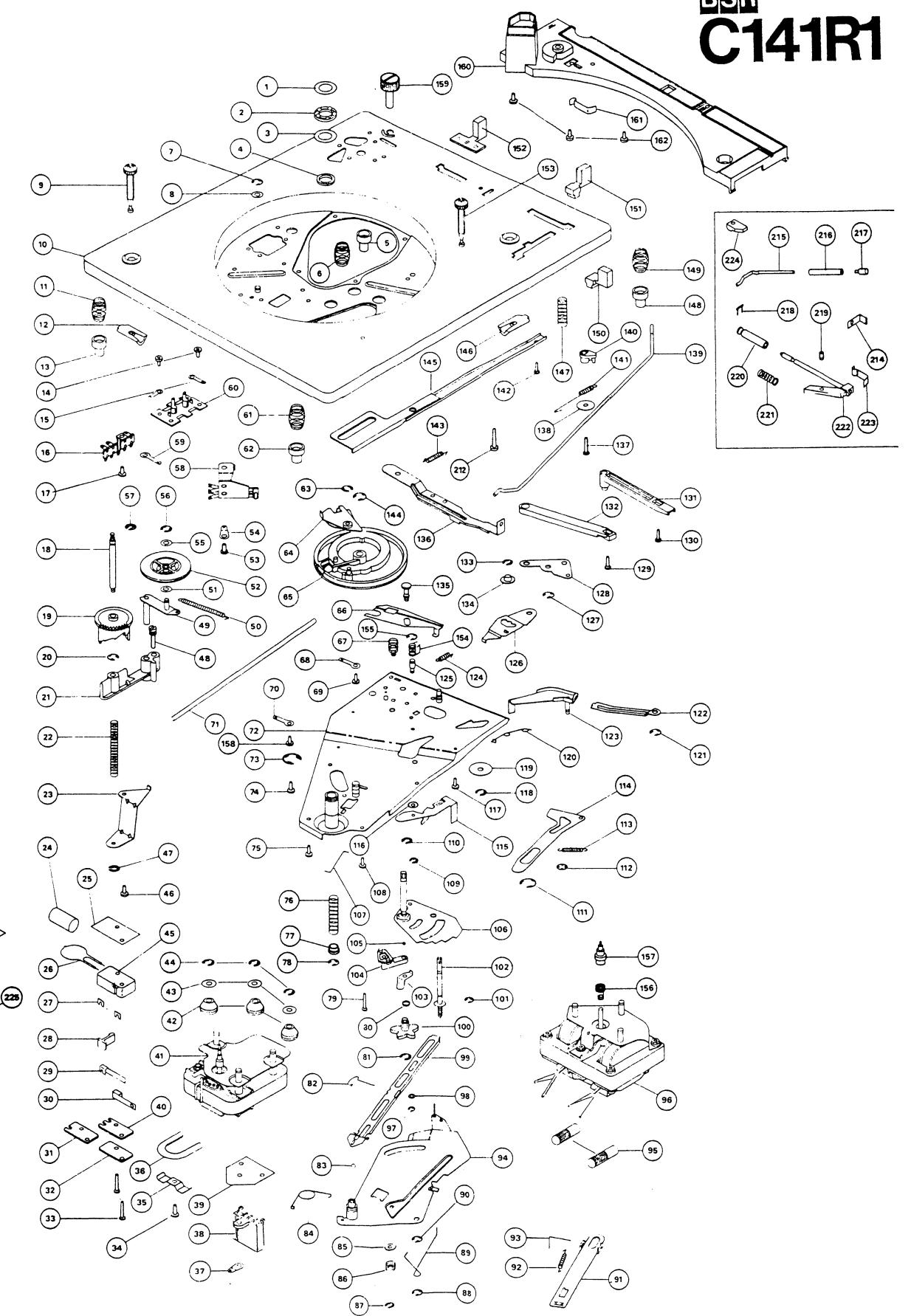
Item Part No Description

160	D.111169	Escutcheon
161	A.108410	Spring
162	A.106510	Screw Type B No. 6 x $\frac{1}{2}$ " Rec. Pan Head
163	A.110451	Raising Arm
164	A.110381	Knob
165	A.110408	Cap
166	A.106663	Pick-Up Rest
167	A.106173	Pick-Up Spring
168	A.106664	Pick-Up Clip
169	A.110454	Raising Pad
170	A.106505	Grub Screw 6 BA x $\frac{1}{2}$ " pointed
171	A.105907	Nut
172	A.105712	Adjusting Screw
173	A.106047	Locking Sleeve
174	A.106917	Screw Type 6 BA x $\frac{1}{2}$ " Std. Cheese Head
175	A.106654	Pick-Up Adjuster
176	A.200510	Pick-Up Balance Spring
177	A.105669	Pick-Up Balance Spring
178	A.108384	Hinge Bracket Riveting Assembly
179	A.106205	Circlip
180	A.108381	Pick-Up Pivot
181	A.108382	Hinge Retainer Spring
182	A.105624	Pick-Up Spindle Nut
183	A.106745	20" - Quin Pick-Up Lead
184	A.109551	Screw Type A No. 4 x $\frac{1}{2}$ " Rec. Pan Head
185	A.106504	6 BA External Lockwasher
186	A.110574	Pick-Up Body Sub Assembly
187	A.106652	Pick-Up Pivot Screw
188	A.108348	Circlip
189	A.108344	Balance Adjusting Screw
190	B.110417	Balance Adjuster
191	A.109551	Screw Type A No. 4 x $\frac{1}{2}$ " Rec. Pan Head
192	C.110397	Pick-Up Head
193	A.106775	Adaptor Plate
194	A.106506	Screw Type B No. 2 x $\frac{1}{2}$ " Rec. Pan Head
195	A.104306	Sleeve
196	A.103587	Solder Tag
197	A.106573	Screw 6 BA x $\frac{1}{2}$ " Rec. Countersunk Head
198	A.110449	Pick-Up Head Trim
199	D.110872	Pick-Up Head
200	B.111172	Pick-Up Tube
201	B.111159	Counterweight
202	A.110864	Pick-Up Head Trim
203	B.111189	Control Arm Assembly
204	A.108827	Screw Type B No. 2 x $\frac{1}{2}$ " Rec. Countersunk Head
205	A.108841	Circlip
206	A.107043	Centre Spindle Assembly
207	A.108748	Stub Spindle
208	A.106024	Turntable Centre Disc
209	B.106139	Turntable Trim
210	C.109261	Turntable Mat
211	C.106194	Turntable Assembly
212	A.106507	Screw Type BT 6-20 x $\frac{1}{2}$ " Rec. Pan Head
213	A.110908	'Custom Design' Head
214*	A.110908	Retainer
215*	A.108413	Raising Arm
216*	A.110381	Knob
217*	A.110407	Cap
218*	A.110895	Circlip
219*	A.108746	Adjusting Screw Assembly
220*	A.108408	Cylinder
221*	A.108415	Spring
222*	A.110423	Raising Slide Assembly
223*	A.108410	Spring
224*	A.110455	Raising Pad
225	A.111174	Speed Change Trim
226	A.111173	Control Trim
227	A.111176	Trim

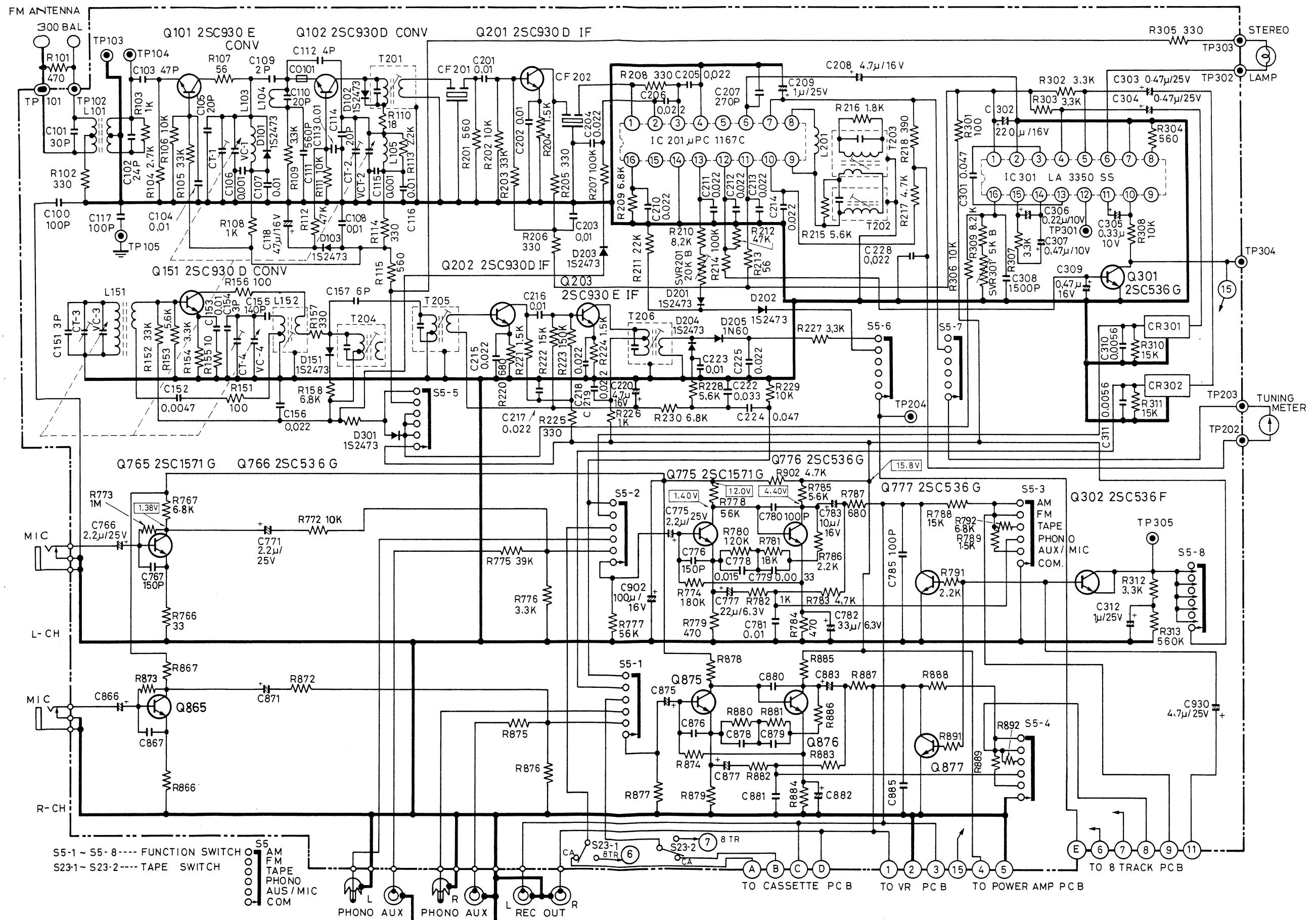
Items marked thus \* apply only when model is fitted with a Viscous cueing device.

4-157T-01401 | Cartridge Assembly  
4-157T-01400 | Cartridge, MG-31J  
4-156T-01000 | Stylus, ST-31J

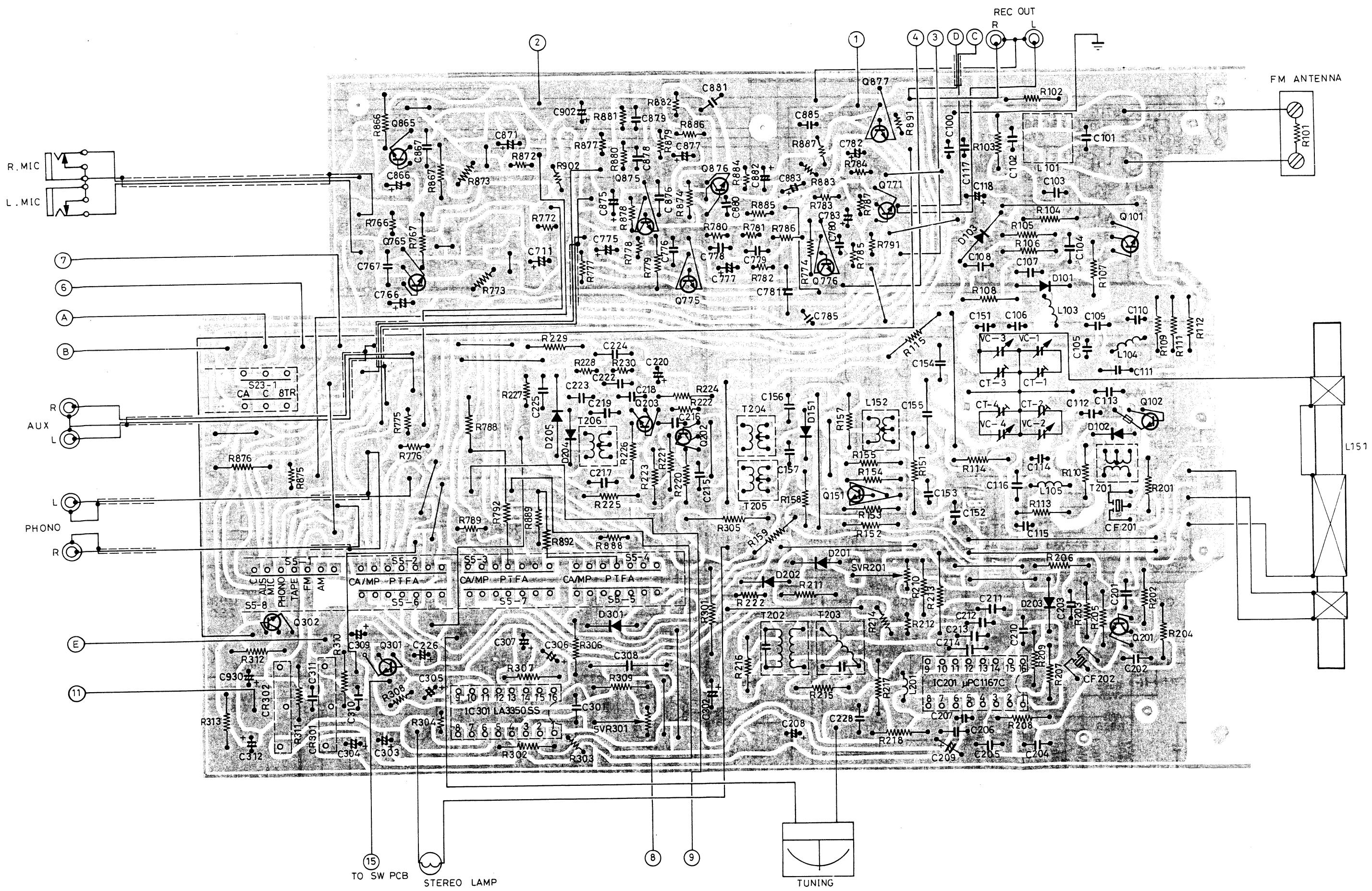
BSR  
C141R1



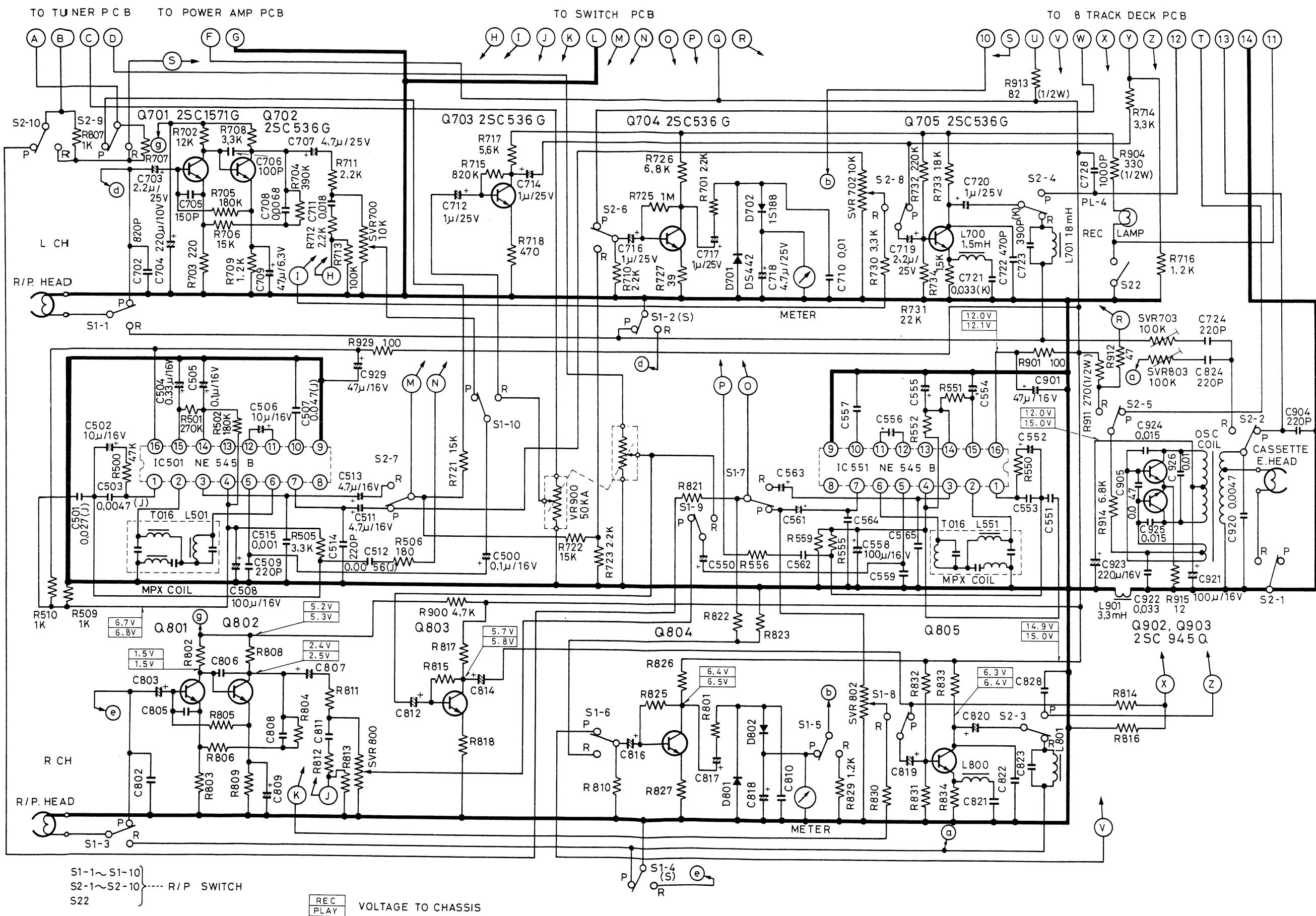
## SCHEMATIC DIAGRAM



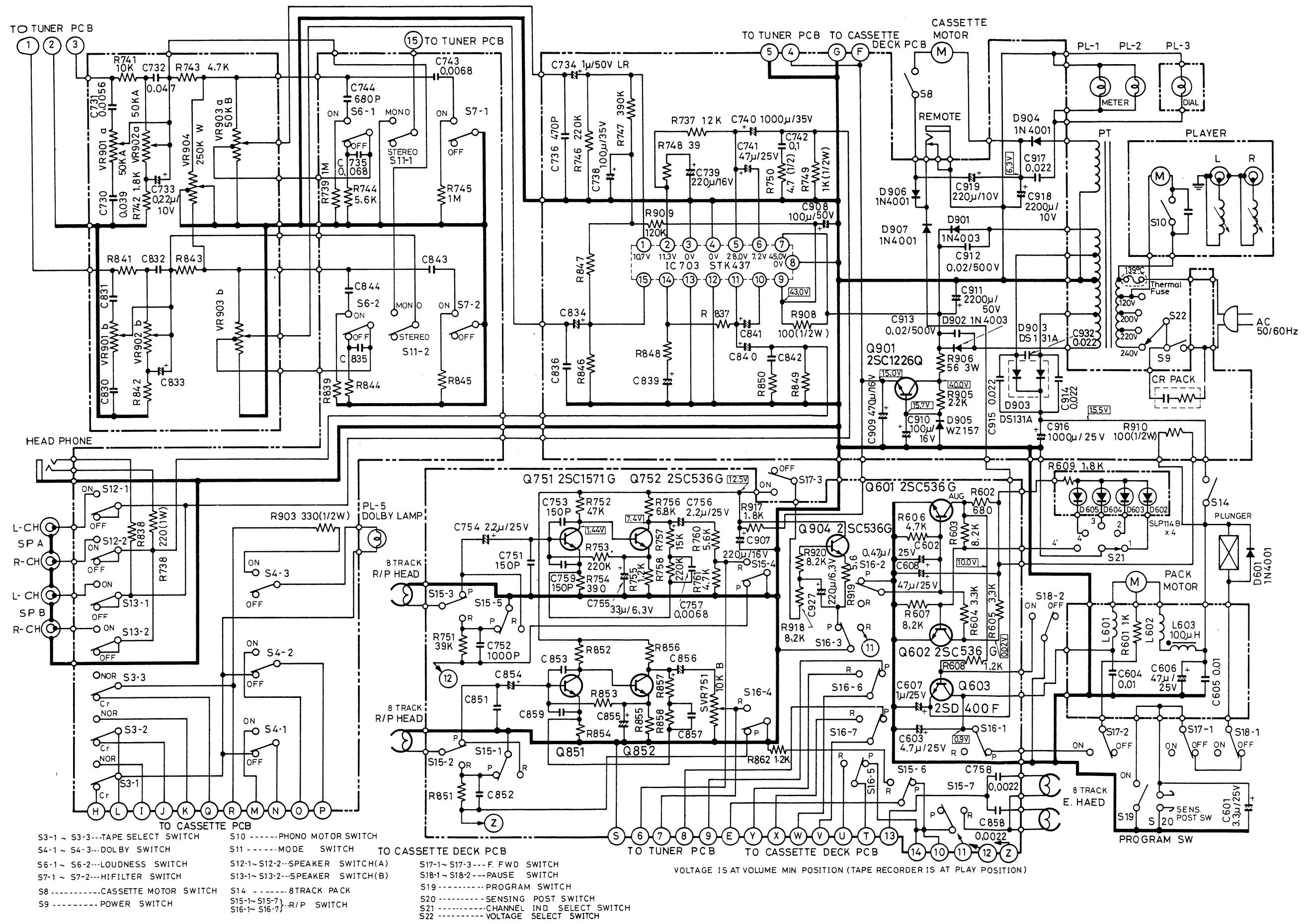
## WIRING DIAGRAM



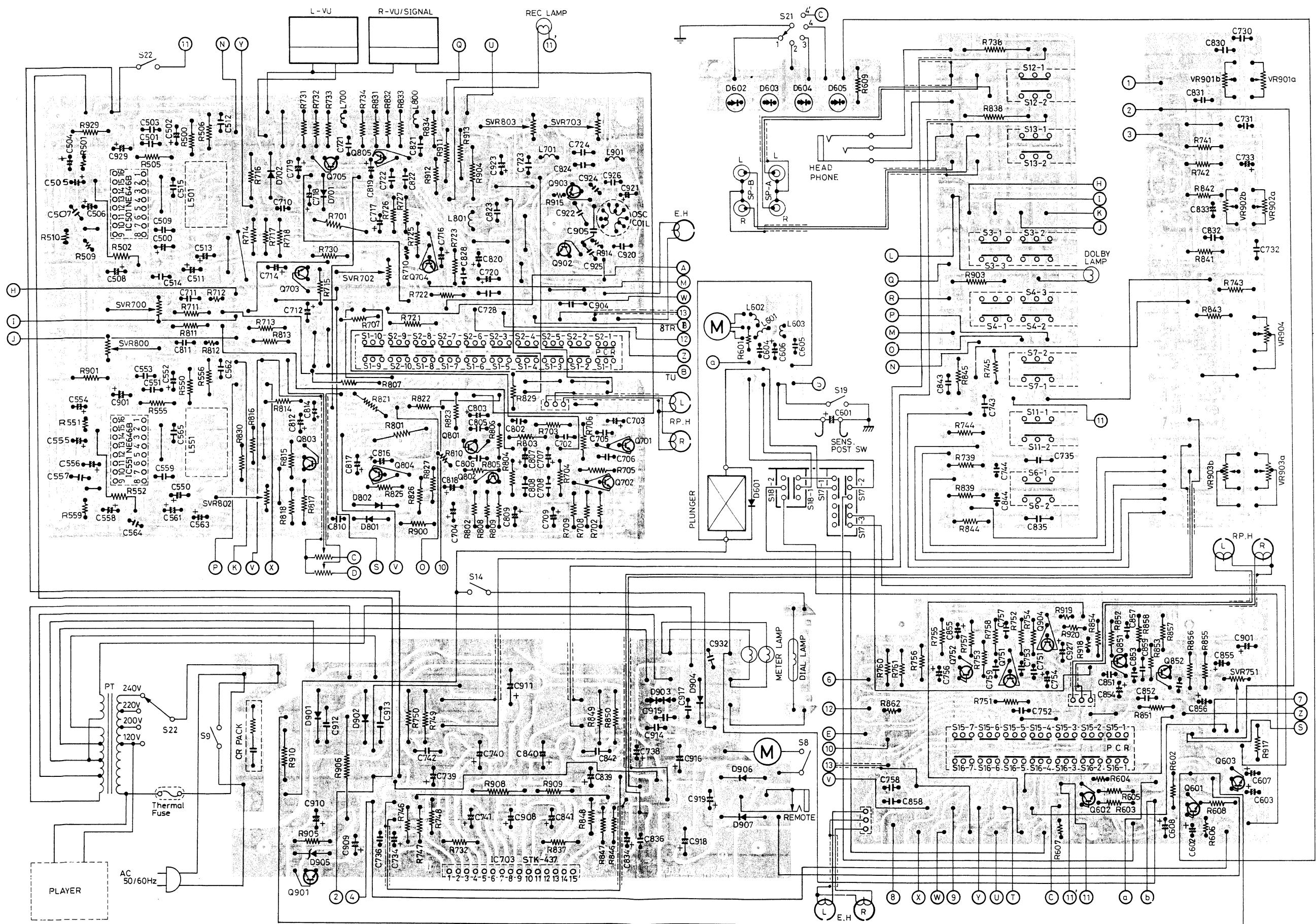
## SCHEMATIC DIAG RAM.



## SCHEMATIC DIAGRAM



## WIRING DIAGRAM



## NOTICE OF CHANGE:

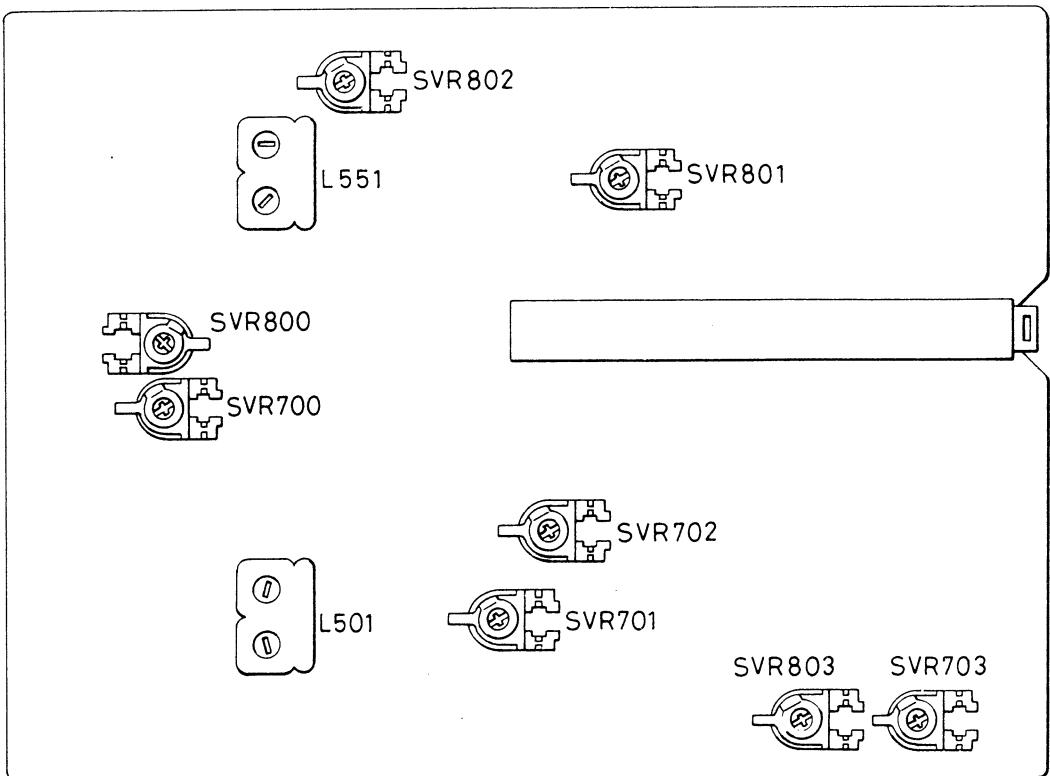
SVR701 and SVR801 have been eliminated from the AMP circuit board in the latest production units, and R756 and R856 have been used in place of SVR701 and SVR801. The table below lists up difference of components used between the old and new AMP circuit boards. Adjustment procedures for the old AMP circuit are given below. Please refer to page 2 for adjustment procedures of the new AMP circuit.

AMP (with SVR701, SVR801)	AMP (without SVR701, SVR801)
SVR701 (10K ohm), SVR801 (10K ohm)	R701(2.2K), R801(2.2K)

ITEM	TEST TAPE	INPUT TERMINAL	DOLBY SW	TAPE SELECT SW	ADJUSTMENT METHOD
R/P Head Azimuth	VTT-657	R/P Head	OFF	NORMAL	Adjust so that output level of L-ch and R-ch be maximum. Measure at test point output.
Playback Gain	MTT-150 DOLBY TAPE	R/P head	OFF	Normal	Adjust SVR 700, 800 until output of test points (TP-H, -E) becomes $580 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch.
METER & REC/PLAY Frequency	TMT6100	AUX -6 dB ↓ -26 dB	OFF	NORMAL	Impress input of 1 kHz (-6 dB) into AUX, set in REC mode. Adjust REC level control until test point output at this time becomes $420 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch. Next, with the meter pointer adjusted by SVR 701, 801 to indicate "OVU" and the input level set to -26 dB, record and play back signals of 1 kHz and 8 kHz. Adjust SVR 703, 803, so that output of 8 kHz be 0 to +1 dB provided that of 1 kHz is 0 dB.
REC/PLAY Output	TMT6100	AUX -6 dB	OFF	NORMAL	Adjust REC level control until test point output in REC mode becomes $420 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch. Record and play back. Then adjust SVR 702, 802 until this record/playback output becomes $420 \text{ mV} \pm 1 \text{ dB}$ .

NOTE: Test point outputs are mentioned in the parts layout drawing. Measure at these test points.

## PARTS LOCATION



## NOTICE OF CHANGE:

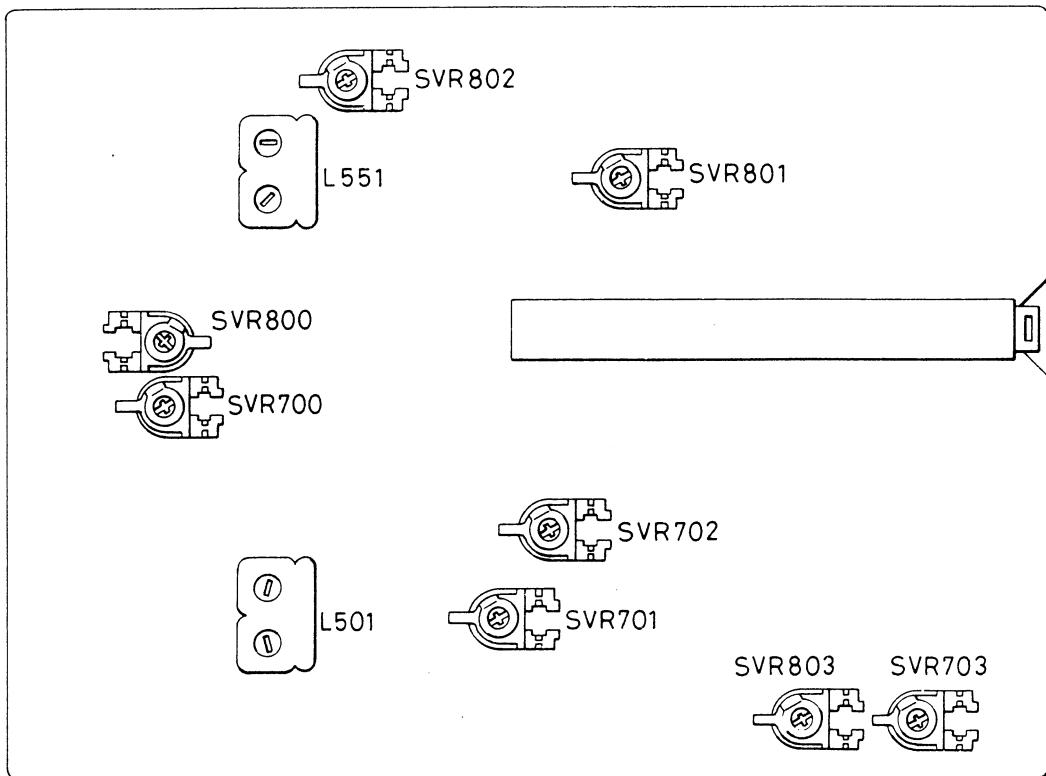
SVR701 and SVR801 have been eliminated from the AMP circuit board in the latest production units, and R756 and R856 have been used in place of SVR701 and SVR801. The table below lists up difference of components used between the old and new AMP circuit boards. Adjustment procedures for the old AMP circuit are given below. Please refer to page 2 for adjustment procedures of the new AMP circuit.

AMP (with SVR701, SVR801)	AMP (without SVR701, SVR801)
SVR701 (10K ohm), SVR801 (10K ohm)	R701(2.2K), R801(2.2K)

ITEM	TEST TAPE	INPUT TERMINAL	DOLBY SW	TAPE SELECT SW	ADJUSTMENT METHOD
R/P Head Azimuth	VTT-657	R/P Head	OFF	NORMAL	Adjust so that output level of L-ch and R-ch be maximum. Measure at test point output.
Playback Gain	MTT-150 DOLBY TAPE	R/P head	OFF	Normal	Adjust SVR 700, 800 until output of test points (TP-H, -E) becomes $580 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch.
METER & REC/PLAY Frequency	TMT6100	AUX $-6 \text{ dB}$ $\downarrow$ $-26 \text{ dB}$	OFF	NORMAL	Impress input of $1 \text{ kHz} (-6 \text{ dB})$ into AUX, set in REC mode. Adjust REC level control until test point output at this time becomes $420 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch. Next, with the meter pointer adjusted by SVR 701, 801 to indicate "OVU" and the input level set to $-26 \text{ dB}$ , record and play back signals of $1 \text{ kHz}$ and $8 \text{ kHz}$ . Adjust SVR 703, 803, so that output of $8 \text{ kHz}$ be $0$ to $+1 \text{ dB}$ provided that of $1 \text{ kHz}$ is $0 \text{ dB}$ .
REC/PLAY Output	TMT6100	AUX $-6 \text{ dB}$	OFF	NORMAL	Adjust REC level control until test point output in REC mode becomes $420 \text{ mV} \pm 0.5 \text{ dB}$ in both L-ch and R-ch. Record and play back. Then adjust SVR 702, 802 until this record/playback output becomes $420 \text{ mV} \pm 1 \text{ dB}$ .

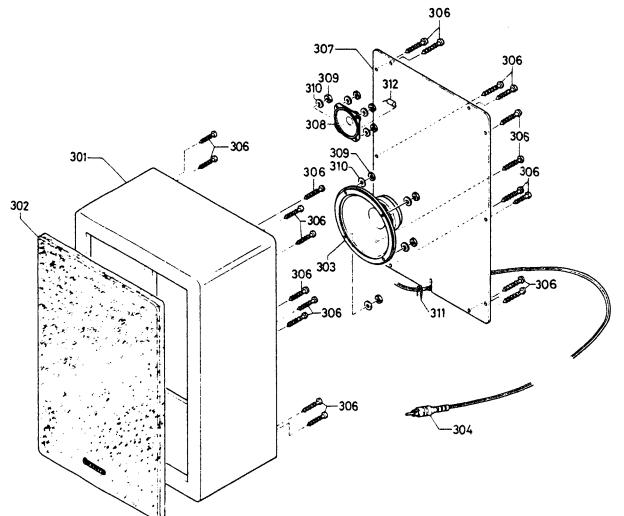
NOTE: Test point outputs are mentioned in the parts layout drawing. Measure at these test points.

## PARTS LOCATION



## PARTS LIST & EXPLODED VIEW (SPEAKER BOX)

SPEAKER BOX ASSEMBLY (JXT6910K only)		
301	141-0-117T-04401	Speaker Box Assembly
302	141-2-117T-04400	Speaker Box
303	141-0-127T-04000	Baffle Board Ass'y
304	4-151T-29500	Speaker 20cm, Woofer
305	4-243T-14900	Lead Cord
306	141-2-421T-04800	Special Screw, SP Mtg.
307	141-0-126T-28401	Round Head Wood Screw 3 x 20mm
308	4-151T-23400	Back Lid Ass'y
309		Speaker 6.5cm, Tweeter
310		Hexagon Nut 3mm
311	141-6-150T-00500	Washer 3 x 8 x 1mm
312		Staple
		Capacitor 3.3μF (N.P)



**SANYO ELECTRIC TRADING CO., LTD.**  
 33, Hiyoshi-cho 2-chome, Moriguchi-shi,  
 Osaka-fu, 570 JAPAN

# MODIFICATION NOTICE

STEREO MUSIC SYSTEM



# SANYO

JXT 6910 (USA)  
JXT 6910K  
JXT 6910K-5  
JXT 6910HK

Date May 6, 1980 Issued by \_\_\_\_\_

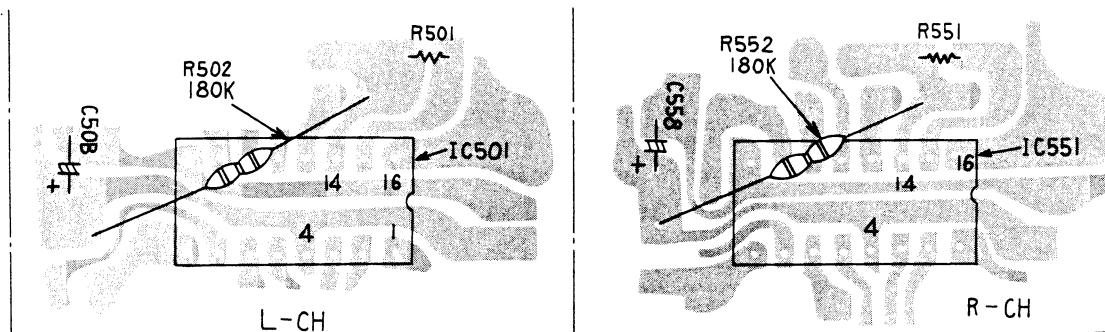
The following corrections should be made in the SERVICE MANUALS and PARTS (PRICE) LIST.

In the Parts List in the Service Manual for Model JXT6910 series, the IC501, 551 of the cassette PCB ass'y are identified as NE454B, which is a misprint for NE545B.

The supply of this IC NE545B has been disabled in the midst of production, and it has been changed to NE646B. As a result of this change, the other parts are modified at the same time as listed below. Since this modification is not distinguished by the serial No. of the set, identify by the name of IC.

Key No.	From	To	Description
IC501, 551	NE545B	→ NE646B	IC
D501, 551	1S188	Not used	Diode
R508, 558	100K ohm	Not used	Carbon Resistor
R503, 553	680K ohm	Not used	Carbon Resistor
R507, 557	180 ohm	Jumper wire	Carbon Resistor
R502, 552	150K ohm	→ 180K ohm	Carbon Resistor
C510, 560	10μF 16V	Not used	Electrolytic Capacitor

1. Abolish R507, 557. Instead, seat the pattern with jumper wire.
2. Install R502, 552 in the positions shown below (on the pattern side), not in the original positions.



INTERCHANGEABLE	NOT INTERCHANGEABLE	Serial No. Chassis No.	Effective from
Q'ty of initial production before modification.		Identification of modified unit.	
REASON FOR MODIFICATION			
A .... Standardization		C .... Improvement of reliability	
B .... Change of materials		D .... Improvement of performance	
		E .... Miss print	
		F .... Miss register	
		G ....	